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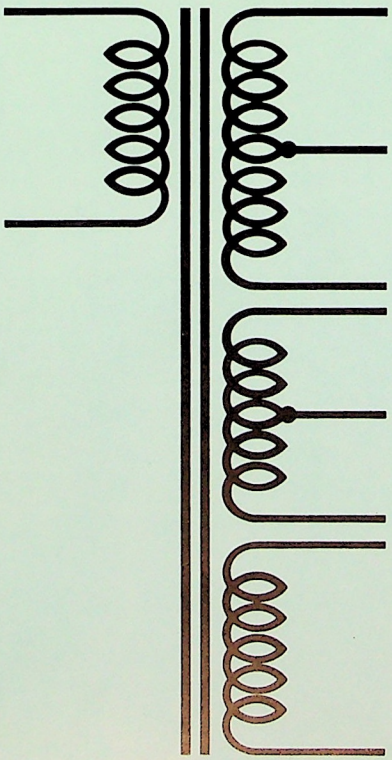

STANDARD TRANSFORMERS AND INDUCTORS

THORDARSON MEISSNER
INCORPORATED

ELECTRONIC CENTER, MT. CARMEL, ILLINOIS 62863
TWX: 510-525-2254 PHONE: 262-5121 (Area Code 618)

THORDARSON

A SINGLE SOURCE FOR YOUR MAGNETIC COMPONENT REQUIREMENTS

The items in **CATALOG 76** should provide complete coverage of your transformer and inductor needs. These products are available off-the-shelf from your distributor. If your distributor is temporarily out of stock, he can order from our in-depth factory inventories with **SAME DAY SHIPMENT**. Also, your **THORDARSON MEISSNER** distributor can instruct us to drop ship to you at no additional charge for your **RUSH SAMPLE/PROTOTYPE OR MAINTENANCE/REPAIR REQUIREMENTS.**

If you require larger quantities, your distributor can provide a quick, up-to-date price and delivery quotation, either bulk-packed or boxed, for any item in this catalog. If you need scheduling for your production quantities, advise your distributor when you request a quotation. In order to provide the best possible price and delivery on most items, you should request scheduled deliveries only in larger quantities of a single part number.

THORDARSON MEISSNER has thousands of additional stock and standard transformers and inductors which are not specified in this catalog because of space limitations and specialized useage/application of these components. If you can't find something you can use in **CATALOG 76,** we probably have a pre-engineered item available. Call your distributor or us with your specifications and we'll provide quick availability information. Your distributor and our sales/technical groups are dedicated to solving your transformer problems FAST! Don't hesitate to let us know **WHAT YOU WANT AND WHEN YOU WANT IT!**

Throughout **CATALOG 76** you will see our engineering and manufacturing capabilities covering a broad spectrum of items. We invite you to let us know whenever you need:

- MODIFICATIONS OF CATALOG ITEMS
- SPECIAL TRANSFORMERS, INDUCTORS, AND REACTORS
- TV REPLACEMENT PARTS (FLYBACKS, YOKES, VERTICAL OUTPUTS, POWER)
- FLYBACKS AND YOKES FOR DISPLAY TERMINALS AND MONITORS

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GENERAL INFORMATION

AUDIO TRANSFORMERS—These transformers are designed and used to change impedance ratios between stages of voice frequency equipments or to provide electrical isolation between different equipments.

Audio units cover a broad range of frequencies and may perform several different functions in the same equipment. Voltage or current level change, AC or DC isolation, filtering, and impedance matching are some typical in-circuit applications.

The application requirements often influence transformer design and result in specific emphasis on one or more characteristics at the expense of others. Such affected parameters include power levels, impedance matching, shielding, insertion loss, and physical size.

In the specification headings starting on page 6, the most widely used electrical factors are listed as well as mechanical dimensions and mounting style. The impedance values shown are the reflected impedances measured at a reference frequence (usually the geometric mean of the frequency range), with secondary load as shown. Turns ratios and nominal impedances listed are derived by the square of the turns ratio method:

$$Z_{IN} = R_{LOAD} \times \alpha^2 \text{ WHERE } \alpha = \text{TURNS RATIO}$$

Values of dc currents listed are maximum and in the example of push-pull operation are maximum for each half of the winding (center-tap current may be twice the amount shown).

THORDARSON

AUDIO TRANSFORMERS

The following transformers present complete coverage of units for use in audio or related applications. The output types are listed first, followed by 70 and 25 volt line units for use in speaker systems. The section is concluded with input, interstage, driver, and other audio-related transformers. Please note that any of these units may be used in applications other than those named in the headings if the ratings are observed. The transformers are listed in order of increasing primary impedance.

OUTPUT: SINGLE PLATE TO VOICE COIL AND/OR LINE

Section	TM Part No.	Impedance in Ohms Pri.	Impedance in Ohms Sec.	Max. Pri. MADC	Audio Watts	Overall Turns Ratio	DC Resistance Pri. Ohms	DC Resistance Sec. Ohms	Frequency Response ±3 DB	RMS Test Volts	Style	Termination Pri.	Termination Sec.	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
A	24S127	1000	4	90	4	15.8:1	54	0.56	200-20000	500	BAH	Leads	Leads	1⅜	2⅛	1¼	2	—	0.5
	24S53	2000	3.5	50	3	25:1	130	0.42	200-1000	1000	BAH	Leads	Leads	1 11/16	2⅛	1⅛	1¼	—	0.2
	24S50	2000	3.5	60	5	23.7:1	90	0.4	50-20000	2000	BAH	Leads	Leads	1⅜	2⅛	1¼	2	—	0.5
	24S50A	2000†	3.5	55	5	25.3:1	127	0.41	—	1100	BAH	Leads	Leads	1⅜	2⅛	1¼	2	—	0.5
	22S22	3000†	3-4	50	2-3	27.3:1	207	0.31	—	1000	BAH	Leads	Leads	1 11/16	2 1/16	1¼	1⅜	—	0.21
B	24S89	3000†	3.5	50	5	29.8:1	200	0.7	200-20000	1500	BAH	Leads	Leads	1⅜	2⅛	1¼	2	—	0.5
	24S48	4000-5000	3.5	10	5	39.5:1	240	0.42	30-20000	1000	BAH	Leads	Leads	1¼	2⅛	1	1¾	—	0.4
	24S51	5000	3.5	40	5	37.8:1	280	0.38	200-20000	1000	BAH	Leads	Leads	1⅜	2⅛	1¼	2	—	0.5
	24S51A	5000†	3.5	40	5	39.9:1	260	0.43	200-20000	1100	BAH	Leads	Leads	1⅜	2⅛	1¼	2	—	0.5
	25S49	5000	3.5	50	8	37.7:1	250	0.33	200-20000	500	BAH	Leads	Leads	1⅜	2 11/16	1⅜	2⅛	—	0.5
C	24S173	5000	3-4	35	3	37.3:1	340	0.50	200-15000	1500	BAH	Leads	Leads	1¼	2⅛	1⅜	1¾	—	0.4
	24S92	5000	4/8/16	50	8	16.7:1	350	1.34	—	1500	BAH	Leads	Leads	2	3¼	1¼	2 13/16	—	1.0
	24S150	5000	6-8	40	10	25.8:1	290	0.72	200-20000	1500	BAV	Leads	Leads	2⅛	2⅛	1⅜	2⅛	—	0.75
	24S91	5000	4/8/16/500	55	20	3.16:1	400	39.4	50-20000	1500	GGV	Leads	Leads	3⅛	2⅛	2⅛	2	1 11/16	2.5
	24S52	7000-10000	3.5	30	5	44.5:1	350	0.41	200-20000	500	BAH	Leads	Leads	1¾	3⅜	1¼	2	—	0.5
D	24S135	7000-10000	1/2/4	35	4	50:1	270	0.44	200-15000	1000	BAH	Lugs	Lugs	1⅜	2⅛	1⅜	2	—	0.5
	24S49	7000-8000	3.5	10	3	47.6:1	372	0.44	200-15000	1000	BAH	Leads	Leads	1¼	2 1/16	1⅜	1¾	—	0.4
	24S81	8000	3.5	30	3	47.6:1	477	0.34	—	1000	BAV	Leads	Leads	1⅜	1⅞	1	1½	—	0.25
	24S83	10000	3.5	30	3	53.7:1	500	0.32	—	1000	BAH	Leads	Leads	1 1/16	2⅛	1¼	1¾	—	0.2
	24S98	10000	4	30	5	57.1:1	290	0.26	200-20000	1000	BAH	Leads	Leads	1⅜	2⅛	1¼	2	—	0.5
E	25S12	15000**	50/125-150/200-250/333 500-600	0*	.031	5.5:1	690	40.2	40-20000	500	UTV	Terminals	Terminals	2	1½	1½	1 11/32	1 5/32	1.0
	24S54	15-20000	3.5	10	5	65.1:1	820	0.40	200-20000	1000	BAH	Leads	Leads	1⅜	2⅛	1¼	2	—	0.5
	24S99	25000	4	5	5	80.3:1	1160	0.6	200-25000	1000	BAH	Leads	Leads	1⅜	2⅛	1¼	2	—	0.5

*Maximum primary current unbalance. **Split center tap. Dual C.T. secondaries. †3% and 6% primary humbucking tap. ‡5% Tap

OUTPUT: PUSH-PULL PLATES TO VOICE COIL AND/OR LINE

Section	TM Part No.	Impedance in Ohms Pri.	Impedance in Ohms Sec.	Max. Pri. MADC	Audio Watts	Overall Turns Ratio	Nominal DC Resistance Pri. Ohms	Nominal DC Resistance Sec. Ohms	Frequency Response ±3 DB	RMS Test Volts	Style	Termination Pri.	Termination Sec.	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
F	24S78	3300/3800 C.T.	4/8/250/800	125	75	2.7:1	74	10.1	50-20000	2000	GGV	Leads	Leads	4¾	4	3⅜	3	2 13/16	8.0
	22S21	4000 C.T.	8/16/32	75	7.5	11.1:1	170	1.4	100-15000	1000	BAH	Leads	Leads	2¼	3¼	2	3⅛	—	1.4
	24S77	4400 C.T.	4/8/16/250/500	70	30	3.16:1	343	20.48	—	1500	GGV	Leads	Leads	3⅛	3	3⅛	2	2¼	3.5
	24S27	5000/10000/20000 C.T.	50/125/333/500	15	10	6.25:1	1325	50	40-15000	1500	BAH	Lugs	Lugs	2	3⅛	1¾	2 13/16	—	1.0
	24S17	5000 C.T.	4/8/16	80	15	18.6:1	205	0.68	—	1500	BAV	Leads	Leads	2⅛	2⅛	1¾	2⅛	—	1.0
G	25S77	5000 C.T.	4/8/16	75	18	18.2:1	185	0.98	70-15000	1500	TAV	Leads	Leads	1½	2 1/16	2¼	1½	2⅛	1.75
	22S70	5000 C.T.	3.5/8/16/250/500	80	25	3.1:1	230	0.75	100-10000	1600	GGV	Leads	Leads	3 1/16	2½	1 7/16	2	1 11/16	2.5
		Use 250 Ohm Tap for 70.7 Volt Line @ 20 Watts																	
	22S71	5000 C.T.	4/8/16/250/500	80	30	2.4:1	250	53.5	20-20000	1500	GGV	Leads	Leads	3⅛	3	3⅛	2	2¼	3.7
	24S57	6600 C.T.	4/8/16/250/500	150	35	3.6:1	120	8.9	30-20000	1600	GGV	Leads	Leads	4	3¼	3⅛	2½	2 1/16	4.5
	22S67	6600 C.T.	8/16	125	50	11.8:1	120	1.1	20-20000	1600	GGV	Leads	Leads	4 5/16	3 1/16	4⅛	2¾	3 1/16	6.5

Listing continued on next page

THORDARSON has additional standard and stocked **AUDIO TRANSFORMERS** which are not listed in this catalog. Contact factory for additional information.

OUTPUT: PUSH-PULL PLATES TO VOICE COIL AND/OR LINE (Cont'd)

Section	TM Part No.	Impedance in Ohms		Max. Pri. MADC	Audio Watts	Overall Turns Ratio	Nominal DC Resistance		Frequency Response ±3 DB	RMS Test Volts	Style	Termination		Outline Dimensions			Mounting Dimensions		Wt. Lbs.
		Pri.	Sec.				Pri. Ohms	Sec. Ohms				Pri.	Sec.	H	W	D	MW	MD	
A	24S58	7000/10000 C.T.	3.5/8/16/500	60	25	5.5:1	365	14.73	—	1600	GGV	Leads	Leads	3 1/16	2 3/8	2 3/8	2 1/4	1 11/16	2.7
	24S179	10000 C.T.	4/8/16/500	70	25	4.8:1	425	0.6/21.2	60-20000	1500	GGV	Leads	Leads	3 1/2	2 11/16	2 1/4	2 1/4	2	4.5
	24S44	10000 C.T.	2/4/8/16/250/500	45	15	4.48:1	344	22.3	—	1000	BHH	Lugs	Lugs	2	3 1/4	1 3/4	2 13/16	—	1.0
	24S56	10000 C.T.	2/4/8	75	8	23.5:1	290	0.72	100-15000	1000	BAH	Leads	Lugs	1 5/8	2 1/8	1 1/2	2 1/8	—	0.7
	24S19	10000 C.T.	4/8/16 3.5/8/16	40	12	24.1:1	575	1.2	100-15000	1500	BAV	Leads	Leads	2 3/8	2 1/8	1 3/4	2 1/4	—	1.0
	25S36	10000 C.T.	4/8/16 150/600	200	15	4.6:1	580	70	50-10000	2000	TAV	Lead	Lead	3 1/8	3 1/4	4	2 1/4	3 1/2	5.0
B	25S41	10000 C.T.	4/8/16 150/600	200	15	4.6:1	580	70	50-10000	2000	TTV	Terminals	Terminals	3 1/8	3 1/4	4	2 1/4	3 1/2	5.0
	22S64	10000 C.T.	4/8/16 250/500	50	25	4.3:1	560	28.7	60-2000	1600	GGV	Leads	Leads	3 1/8	2 3/8	2 3/8	2	1 1/8	2.5
	26S47	14000 C.T.	3.5	35	12	63.2:1	470	0.22	100-15000	500	BAH	Leads	Leads	2	3 1/8	2	2 13/16	—	1.0
	25S12	15000**	50-125/150-200/250-333-500/600	0*	.031	5.5:1	690	40.2	40-20000	500	UTV	Terminals	Terminals	2	1 1/2	1 1/2	1 1/32	1 1/32	1.0
	24S114	18000 C.T.	50/250/600	20	2	5.5:1	1200	43	70-10000	500	BHH	Leads	Leads	1 5/8	2 13/16	1 1/2	2 3/8	—	0.5
	24S59	25000 C.T.	3.5	10	5	79:1	850	0.3	200-10000	500	BAH	Leads	Leads	1 3/8	2 1/8	1 3/8	2	—	0.4

*Maximum primary current unbalance. **Split center tap. Dual C.T. secondaries.

UNIVERSAL OUTPUT: SINGLE OR PUSH-PULL PLATE TO VOICE COIL

Section	TM Part No.	Impedance in Ohms		Max. Pri. MADC	Audio Watts	Overall Turns Ratio	DC Resistance		Frequency Response ±3 DB	RMS Test Volts	Style	Termination		Outline Dimensions			Mounting Dimensions		Wt. Lbs.
		Pri.	Sec.				Pri. Ohms	Sec. Ohms				Pri.	Sec.	H	W	D	MW	MD	
C	24S64	1500 to 10000	.02 to .30	55	10	18.3:1	230	1.2	—	1600	BHH	Lugs	Lugs	1 5/8	2 1/8	1 1/2	2 3/8	—	0.7
	22S61	2000 to 10000 C.T.	.64 to 21.3	30	2	25:1	420	0.95	—	1500	BAH	Leads	Lugs	1 5/16	2 1/16	1 1/4	1 1/4	—	0.21
	24S05	2000 to 13000 C.T.	0.1 to 50	50	4	22:1	207	1.24	—	1500	BHH	Leads	Lugs	1 5/8	2 3/8	1 1/4	2	—	0.5
	24S11	2500 to 14000 C.T.	0.1 to 30	50	10	19.5:1	512	1.31	—	1500	BHV	Leads	Lugs	2 1/8	2 3/8	1 1/2	2 3/8	—	1.0
	24S174	3000/10000 C.T.	.09 to 65.4	60	20	18.1:1	160	0.7	—	1000	BHV	Leads	Leads	2 1/4	3 1/8	2 1/8	2 13/16	—	1.8
D	24S55	3000 to 10000 C.T.	1.0 to 30	60	20	15.8:1	214	0.7	—	1000	BHV	Lugs	Lugs	2 3/8	2 1/4	3 1/16	2 13/16	—	1.8
	24S42	3000 to 10000 C.T.	0.17 to 32	70	24	15.9:1	279	0.91	—	1000	BHH	Leads	Lugs	2 1/4	3 1/16	2 1/8	3 1/8	—	1.8
	24S12	3500 to 14000 C.T.	0.1 to 50	40	18	22.4:1	500	0.79	—	1500	BHV	Leads	Lugs	2 3/8	2 1/8	2	2 3/8	—	1.2
	24S60	4000 to 14000 C.T.	0.1 to 30	35	4	21.9:1	350	0.81	—	500	BHH	Leads	Lugs	1 5/8	2 1/8	1 1/4	2	—	0.5

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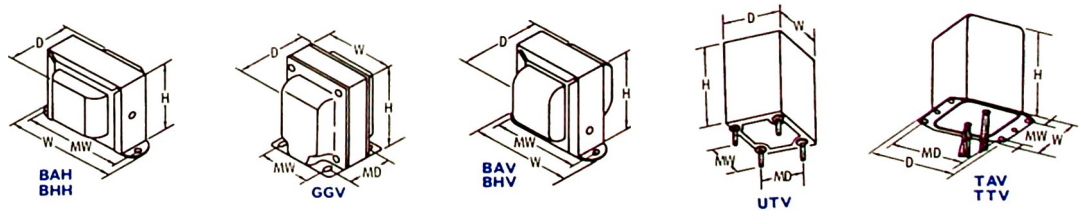


THORDARSON

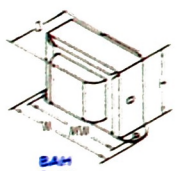
AUDIO TRANSFORMERS

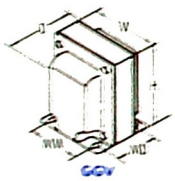
UNIVERSAL OUTPUT: SINGLE OR PUSH-PULL PLATE TO VOICE COIL (Cont'd)

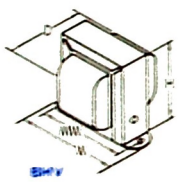
Section	TM Part No.	Impedance in Ohms		Max. Pri. MADC	Audio Watts	Overall Turns Ratio	DC Resistance		Frequency Response ±3 DB	RMS Test Volts	Style	Termination		Outline Dimensions			Mounting Dimensions		Wt. Lbs.
		Pri.	Sec.				Pri. Ohms	Sec. Ohms				Pri.	Sec.	H	W	D	MW	MD	
A	24S06	4000 to 14000 C.T.	0.1 to 50	40	8	18.1:1	500	2.1	—	1500	BHH	Leads	Lugs	1⅜	2⅜	1½	2⅛	—	0.75
	24S04	4000 to 14000 C.T.	0.1 to 50	35	4	18.3:1	300	1.1	—	1500	BHH	Leads	Lugs	1⅜	2⅜	1¼	2	—	0.5
	24S01	4000 to 14000 C.T.	0.1 to 30	40	8	22:1	182	0.835	—	1500	BHH	Lugs	Lugs	1⅜	2⅜	2	2⅛	—	1.0
	24S101	4000 to 14000	0.02 to 122	40	15	18.2:1	350	1.0	—	1500	BHH	Lugs	Lugs	2⅛	3¼	2⅛	3⅛	—	1.7
	24S14	4000 to 14000 C.T.	0.1 to 50	50	18	18.1:1	540	1.8	—	1500	BHH	Lugs	Lugs	2	3⅛	2	2 13/16	—	1.25
B	24S08	4000 to 20000 C.T.	0.5 to 50	50	8	32.2:1	420	0.85	—	1500	BHV	Leads	Lugs	2	2⅜	1½	2	—	0.75
	24S180	6000 to 15000	0.6 to 4.0	75	8	44:1	175	0.5	—	1500	BHH	Leads	Lugs	2	3¼	2	2 13/16	—	1.4

OUTPUT: HIGH FIDELITY

Section	TM Part No.	Impedance in Ohms		Max. Pri. MADC	Audio Watts	Overall Turns Ratio	DC Resistance		Frequency Response ±1 DB	RMS Test Volts	Style	Termination		Outline Dimensions			Mounting Dimensions		Wt. Lbs.
		Pri.	Sec.				Pri. Ohms	Sec. Ohms				Pri.	Sec.	H	W	D	MW	MD	
C	22S14	4500 C.T.	4 8 16	150	100	16.2:1	170	0.5	20-20000	2500	GGV	Leads	Leads	5 5/16	4 9/16	5⅝	3½	4⅝	14.7
	22S83	5000 C.T.	8 16	150	50	10.2:1	105	1.05	20-20000	1600	GGV	Leads	Leads	4 5/16	3 5/16	4⅝	2¾	3 5/16	6.0
	22S87	6000 C.T.	8 16	125	50	11.8:1	125	1.1	20-20000	1600	GGV	Leads	Leads	4 5/16	3 5/16	4⅝	2¾	3 5/16	6.0
	22S85	7500 C.T.	4 8 16	100	25	14.3:1	250	1.8	20-60000	1500	GGV	Leads	Leads	4 5/16	3 5/16	4⅝	2¾	3 5/16	6.0







REPLACEMENT PARTS

THORDARSON maintains the most complete line of replacement transformers in the industry. Television flybacks, yokes, vertical output and power transformers are stocked in-depth plus thousands of other hard-to-get transformers and chokes for consumer, commercial, industrial, medical, and military applications. Your THORDARSON distributor has up-to-date TV replacement information.

Sound Distribution Systems

The 70.7 Volt and the 25 Volt sound distribution systems have become the most widely accepted distribution systems in use today. The 70.7 and the 25 Volt Line to Voice Coil Transformers have been designed to provide systems that combine simplicity and versatility with excellent sound reproduction.

There are many advantages in using a 70.7 or 25 volt System for multi-speaker installations, one of the main advantages being simplicity itself. It is only necessary to know the full power output of the amplifier and the full power desired at each speaker to design the complete speaker system. To choose the correct transformers match the power to be delivered to each speaker with the power rating of a 70.7 or 25 Volt Line Transformer. Then connect the primaries of the transformers to the 70.7 or 25 Volt tap on the amplifier. When the sum of the power rating shown on each transformer is equal to the full power output rating of the amplifier, and the speakers are connected to the appropriate secondary tap, the system is perfectly matched.

Most newer amplifiers have a designated 70.7 and/or 25 volt outlet, but almost any amplifier has an impedance tap which may be used as a 70.7 or 25 volt output.

The following table gives these impedance taps:

Full Power Output of Amplifier	Impedance tap for 70.7 Volt Line	Impedance tap for 25 Volt Line
5	1000 Ohms	125 Ohms
10	500 Ohms	62.5 Ohms
20	250 Ohms	31.2 Ohms
25	200 Ohms	25 Ohms
40	125 Ohms	15.6 Ohms
50	100 Ohms	12.5 Ohms
100	50 Ohms	6.25 Ohms

For Power ratings not shown use the following formulae:

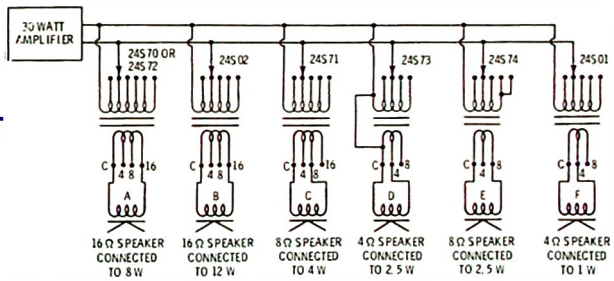
$\frac{5000}{W}$ Impedance Tap for 70.7 Volt Line

$\frac{625}{W}$ Impedance Tap for 25 Volt Line

W Full Power Output of Amplifier

Another big advantage of these systems is its versatility. Speakers may be added, removed or their power level changed by simply moving a single connection on the transformers.

A TYPICAL INSTALLATION OF THE 70.7 VOLT LINE DISTRIBUTION SYSTEM.



25 VOLT LINE TO VOICE COIL (SPEAKER)

Section	TM Part No.	Impedance in Ohms Pri.	Sec.	Audio Watts	Overall Turns Ratio	DC Resistance Pri. Ohms	Sec. Ohms	Frequency Response ±3 DB	RMS Test Volts	Style	Termination Pri.	Sec.	Outline Dimensions H	W	D	Mounting Dimensions MW	MD	Wt. Lbs.
A	24822	39/78/156/312.5/625/1250	4/8/16	16/8/4/2/1/0.5	8.8:1	70	1.8	100-6000	1500	BHV	Lugs	Lugs	2¾	3½	2½	2 11/16	—	1.75
	24821	78/156/312.5/625/1250	4/8/16	8/4/2/1.5	8.8:1	125	1.1	100-10000	1000	BHV	Lugs	Lugs	2	2½	1¾	2	—	1.0
	24824	125/250/500/1000/2000	4/8	5/2.5/1.25/ 0.62/0.31	15.8:1	85	0.50	30-20000	500	BHH	Lugs	Lugs	1½	2½	1¼	2	—	0.4
	24S169	125/312/625/1250	4/8	5/2/1/0.5	12.8:1	65	0.75	—	900	BAH	Leads	Leads	1½	2 11/16	1½	2½	—	0.7
	24S129	156/312/625/ 1250/2500/5000	8	4/2/1/0.5/ 0.25/0.12	24.3:1	200	0.86	40-20000	1000	BAH	Leads	Leads	1½	2 11/16	1½	2½	—	0.7
B	24S126	312/625/1250	4/8	2/1/0.5	12.5:1	80	0.84	50-15000	500	BHH	Lugs	Lugs	1¼	2½	1½	1¼	—	0.3
	24S109	312/625/1250	4/8	2/1/0.5	12.4:1	80	0.62	40-15000	1500	BAH	Leads	Leads	1½	2½	1½	2	—	0.45

THORDARSON has additional standard and stocked AUDIO TRANSFORMERS which are not listed in this catalog. Contact factory for additional information.

THORDARSON

AUDIO TRANSFORMERS

70.7 VOLT LINE TO VOICE COIL (SPEAKER)

Section	TM Part No.	Impedance in Ohms Pri.	Sec.	Audio Watts	Overall Turns Ratio	Nominal DC Resistance Pri. Ohms	Sec. Ohms	Frequency Response ±3 DB	RMS Test Volts	Style	Termination Pri.	Sec.	Outline Dimensions H	W	D	Mounting Dimensions MW	MD	Wt. Lbs.
A	24S172	82/166/312/625	8	60/30/15/7.5	8.8:1	15	0.42	—	1000	LAH	Leads	Leads	3¼	3¾	3	3½	2¼	4.0
	24S167	100/125/200/333	4/8/16	50/40/25/15	4.6:1	23	1.2	40-20000	1500	BAV	Lugs	Lugs	2¾	2¾	2	2½	—	1.5
	24S171	166/312/625/1250	8	30/15/7.5/3.8	12.6:1	27	0.5	—	1000	BAH	Leads	Leads	2⅝	4	2¼	3⁹⁄₁₆	—	2.5
	24S166	166/250/500/1000	4/8/16	30/20/10/5	7.9:1	36	9.1	40-20000	1500	BAV	Lugs	Lugs	2⅝	2⅞	1¾	2⅜	—	1.2
	24S02	208/416/832/1664/3230	4/8/16	24/12/6/3/1.5	13.9:1	60	0.68	40-20000	1500	BHH	Lugs	Lugs	2⁹⁄₁₆	3¹¹⁄₁₆	2	3⅜	—	2.5
B	24S105	250/500/1000/2000	4/8/16	20/10/5/2.5	11.2:1	63	0.72	50-20000	1000	BHV	Lugs	Lugs	2⅝	2⅞	1¾	2⅜	—	1.0
	24S72	312.5/625/1250/ 2500/5000/10000	4/8/16	16/8/4/2/1/.05	25.1:1	480	0.88	100-5000	1000	BHV	Lugs	Lugs	2⅝	3½	2¼	2¹³⁄₁₆	—	1.75
	24S123	333/357/384/417/555	8/16	15/14/13/12/11	5.3:1	29	1.1	50-20000	1000	BHV	Lugs	Lugs	2⁹⁄₁₆	2⅞	1¾	2⅜	—	1.2
	24S159	333/357/384/417/555	8	15/14/13/12/11	7.1:1	28	0.71	40-20000	1000	BHV	Lugs	Lugs	2⅝	2⅞	1¾	2⅜	—	1.2
	24S124	500/555/625/ 715/833	8/16	10/9/8/7/6	6.9:1	69	1.2	50-20000	1000	BHV	Lugs	Lugs	2	2⅜	1⅝	2	—	0.7
C	24S101	500/1000/2000/ 4000	4/8/16	10/5/ 2.5/1.25	15.8:1	157	0.84	40-20000	1000	BAV	Leads	Leads	⅞	2⅜	½	2	—	0.6
	24S161	500/1000/2000/ 4000/8000	4/8/16	10/5/2.5/1.25/.062	21.5:1	760	1.7	50-20000	1000	BHH	Lugs	Lugs	1⅝	2¹³⁄₁₆	1⅝	2⅜	—	0.75
	24S170	500/1000/2000/4000	8	10/5/2.5/1.25	22.2:1	200	1.2	—	1000	BAV	Leads	Leads	2¼	3⁹⁄₁₆	1¾	2⅜	—	1.0
	24S73	500/1000/2000/ 4000	4/8/16	10/5/2.5/ 1.25*	22.4:1	200	1.3	100-6000	1000	BHV	Lugs	Lugs	2⅜	2⅞	1¾	2⅜	—	1.0
	24S71	625/1250/2500 5000/10000	4/8/16	8/4/2/1/0.5	25:1	830	1.4	50-20000	1000	BHV	Lugs	Lugs	2	2½	1⅝	2	—	1.0
D	24S168	1000/2500/5000/10000	8	5/2/1/0.5	35.1:1	600	0.73	—	900	BAH	Leads	Leads	1⅝	2¹³⁄₁₆	1⅜	2⅛	—	0.7
	24S178	1000/2000/4000/ 8000/16000	4/8	5/2.5/1.25/ 0.625/0.312	44.7:1	850	0.54	50-20000	1000	BAH	Leads	Leads	1⅝	2⅛	1⅜	2	—	0.5
	24S74	1000/2000/4000/ 8000/16000	4/8	5/2.5/1.25/ 0.62/0.31	44.7:1	850	0.54	50-20000	1000	BHH	Lugs	Lugs	1⅜	2⅛	1¼	2	—	0.5
	24S125	1000/1250/ 1667/2500/5000	8/16	5/4/3/2/1	79.1:1	265	1.9	50-20000	1000	BHH	Lugs	Lugs	1⅜	2⅛	1⅜	2	—	0.5
	24S126	1250/2500/ 5000/10000/20000/40000	8	4/2/1/0.5/ 0.25/0.12	64.6:1	1820	1.1	50-20000	1000	BAH	Leads	Leads	1⅝	2⅛	1½	2⅛	—	0.7
E	24S163	2500/5000/10000	4/8	2/1/0.5	34.5:1	550	0.87	50-15000	1000	BHH	Lugs	Lugs	1¼	2⅛	1⅜	1¾	—	0.2
	24S178	2500/5000/10000	8	2/1/0.5	34.6:1	650	0.74	50-2000	1000	BAH	Leads	Leads	1⅜	2⅛	1½	2	—	0.4
	24S01	2500/5000/ 10000/20000/ 40000	4/8	2.0/1.0/ 0.5/0.25/ 1.25	66:1	1225	1.04	—	1000	BHH	Lugs	Lugs	¼	2¹⁄₁₆	1¼	1¾	—	0.2

*Autoformer

MISCELLANEOUS LINE TO VOICE COIL (SPEAKER)

Section	TM Part No.	Impedance in Ohms Pri.	Sec.	Audio Watts	Overall Turns Ratio	Nominal DC Resistance Pri. Ohms	Sec. Ohms	Frequency Response ±3 DB	RMS Test Volts	Style	Termination Pri.	Sec.	Outline Dimensions H	W	D	Mounting Dimensions MW	MD	Wt. Lbs.
F	22S81	45/50	3.5/8	8	2.3:1	4.4	0.43	100-20000	500	BAH	Leads	Leads	1⅝	2⅛	1⅝	2⅛	—	0.7
	25S06	400-500 C.T.	3.2/4	1	11.1:1	35	0.41	100-20000	500	RTV	Terminals	Terminals	1⁹⁄₁₆	⅛dia.		¹¹⁄₁₆	—	0.06
	24S75	500	3.2/6/8	5	8.1:1	50	0.85	60-20000	1000	BAH	Leads	Lugs	1⅜	2⅛	1¼	2	—	0.45
	22S103	500	4/8	5	7.95:1	33.6	0.7	300-7000	500	BAH	Leads	Leads	1⅜	2⅛	1⅜	1⅜	—	0.45
	24S45	500	4/6/8/15	15	5.7:1	20	0.9	100-10000	500	BHV	Lugs	Lugs	2⁹⁄₁₆	2⅛	1¾	2⅛	—	1.2
G	24S46	500/1000/ 1500/2000	3.5/8	8	15.4:1	200	0.6	60-15000	1500	BHH	Lugs	Lugs	1⅝	2⅛	1⅜	2⅛	—	0.7
	24S66	500/1000/ 1500/2000	3.5/8	10	16.7:1	128	0.76	—	1100	BHV	Lugs	Lugs	2	2½	1⅜	2	—	1.0
	22S109	500/1000/1500 2000/3000	4/8/16	10	12.9:1	220	1.3	50-15000	1500	BHV	Lugs	Lugs	2⁹⁄₁₆	2¹³⁄₁₆	1¾	2⅛	—	1.5
	24S47	500/1000/ 1500/2000	3.5/8	12	15.7:1	100	0.7	50-15000	1600	BHV	Lugs	Lugs	2⁹⁄₁₆	2⅛	1⅜	2⅛	—	1.2
	22S83	500/1000/ 1500/2000	3.5/8/16	15	10.6:1	100	1.1	70-7000	1500	BAH	Leads	Lugs	2¼	3¼	2	3⅛	—	2.25
H	24S00	500/1000/1500	4/8/16	25	9.9:1	70	0.9	60-20000	1500	BHV	Lugs	Lugs	3⅛	3⅛	2¼	3¼	—	2.5
	24S78	500/1000/ 1500/2000/ 2500/3000	.06 to 8 when Pri. is 500 .12 to 16 when Pri. is 1000	15	7.9:1	60	0.4	60-15000	1500	BHV	Lugs	Lugs	2⁹⁄₁₆	2⅛	2	2⅛	—	1.4

THORDARSON

AUDIO TRANSFORMERS

MATCHING 25-VOLT LINE TO 70.7-VOLT LINE OR 70.7-VOLT LINE TO 25-VOLT LINE

Section	TM Part No.	Matching Impedance		Audio Watts	DC Resistance		Frequency Response ±3 DB	RMS Test Volts	Style	Termination		Outline Dimensions			Mounting Dimensions		Wt. Lbs.
		Primary	Secondary		Pri. Ohms	Sec. Ohms				Pri.	Sec.	H	W	D	MW	MD	
A	24S113	25V Line to 70.7V Line or 70.7V Line to 25V Line 30 Watts	20.8 C.T. to 166 C.T.§ or 166 C.T. to 20.8 C.T.§	30	1.8	16.7	20-20000	1500	BAV	Leads	Leads	3 1/16	3 1/8	3 1/8	3 1/8	—	2.3

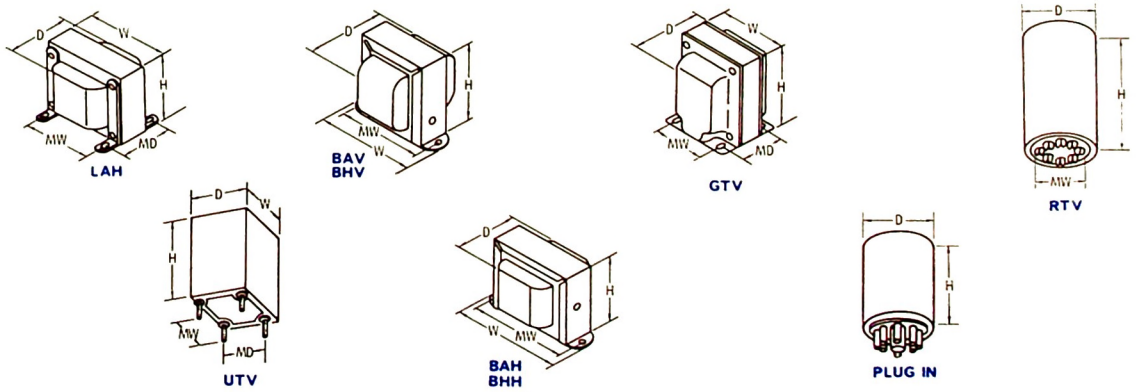
LINE TO LINE

Section	TM Part No.	Impedance in Ohms		Audio Watts	Frequency Response ±3 DB	Style	Termination		Outline Dimensions			Mounting Dimensions		Wt. Lbs.
		Primary	Secondary				Pri.	Sec.	H	W	D	MW	MD	
B	20A07	50/125/200/333/500	50/125/200/333/500	10	200-15000	BHH	Lugs	Lugs	2	3 1/4	1 1/4	2 1/16	—	1.0
	20D20	50/125/200 C.T./333/500 C.T.	50/125/200/333/500	20	100-15000	GTV	Lugs	Lugs	3 1/16	2 1/8	3 1/4	2	1 1/16	2.4
	20A103	600 C.T./150 (Split WDG)	600 C.T./150 (Split WDG)	1	100-10000	BAH	Leads	Leads	1 1/16	2 1/16	1 1/4	1 1/4	—	0.21

HIGH FIDELITY, INPUT/INTERSTAGE (SHIELDED-CASED)

Section	TM Part No.	Application	Impedance in Ohms		Audio Watts	Normal DC Resistance		Overall Turns Ratio	Freq. Res. ±3 DB	RMS Test Volts	Style	Termination		Outline Dimensions			Mounting Dimensions		Wt. Lbs.
			Pri.	Sec.		Pri. Ohms	Sec. Ohms					Pri.	Sec.	H	W	D	MW	MD	
C	25A46	—	125/500*	125/500*	250 MW	43.3	75.2	1:1	00-20000	500	RTV	Term.	Term.	1 3/16	7/8	Dia.	1 1/16	—	0.4
	25A54	—	50-200/250	50-200/250-500/600	35 MW	11.64	43.3	1:1.55	30-20000	500	Plug-in	Octal	Plug	1 11/32	1 1/32	Dia.	8 Pin Octal		0.4
	25A63	—	150/600*	150/600**	30 MW	21.96	42.92	1:1	20-30000	500	UTV	Term.	Term.	2	1 1/2	1 1/2	1 1/32	1 1/32	0.5
	25A60	Line to Line	50-200/250-500/600	50-200/250-500/600	30 MW	29.3	41.6	1:1	30-30000	500	UTV	Term.	Term.	2	1 1/2	1 1/2	1 1/32	1 1/32	0.3
	25A22	—	50/125/200/250/333/500	50/125/200/250/333/500	30 MW	32	32	1:1	40-50000	500	UTV	Term.	Term.	2	1 1/2	1 1/2	1 1/32	1 1/32	0.5
D	25A59	Mike, Pickup or Line to P.P. Grids	50/200/500	50000 C.T.	5 MW	51.8	3920	1:10	20-20000	500	UTV	Term.	Term.	2	1 1/2	1 1/2	1 1/32	1 1/32	0.5
	25A58	Mike, Pickup or Line to S. or P.P. Grids	50-125/150-200/250-333-500/600	50000 C.T.*	100 MW	28.63	1440	1:10	20-20000	500	UTV	Term.	Term.	2	1 1/2	1 1/2	1 1/32	1 1/32	0.5
	25A15	Mike pickup or Line to Line	50-125/150-200/250-333-500/600	50/125/200/250/333/500	50 MW	23.9	35.8	1:1	20-20000	500	UTV	Term.	Term.	3 1/16	3 1/16	2 5/8	2 13/64	1 15/64	0.6
	25A16	Mike, Pickup or Line to Grid	50-125/150-200/250-333-500/600	50000	15 MW	17.1	2370	1:10	30-20000	500	UTV	Term.	Term.	2	1 1/2	1 1/2	1 1/32	1 1/32	0.5

*Split windings **Dual split windings



THORDARSON has additional standard and stocked **AUDIO TRANSFORMERS** which are not listed in this catalog. Contact factory for additional information.

THORDARSON

AUDIO TRANSFORMERS

MICROPHONE, PICKUP, VOICE COIL, OR LINE TO GRID(S)

Section	TM Part No.	Application	Impedance in Ohms		Audio Watts Max.	Nominal DC Resistance		Overall Turns Ratio	Frequency Response ±3 DB	RMS Test Volts	Style	Termination		Outline Dimensions			Mounting Dimensions		Wt. Lbs.
			Pri.	Sec.		Pri. Ohms	Sec. Ohms					Pri.	Sec.	H	W	D	MW	MD	
A	20A16	V.C. to Grid	3.5	50000	—	0.58	701	1:124	150-10000	500	TA7J	Leads	Leads	1 3/32	—	1 3/32	1 3/16	—	0.3
	20A04	V.C. to Grid	3/6	38400	—	0.32	1100	1:80	100-10000	500	BAH	Leads	Leads	1 7/16	2 1/8	1 1/4	2	—	0.5
	20A35	Mike or Mixer to Grid	50	50000	1	8.8	6500	1:31.6	200-20000	500	BAH	Leads	Leads	1 3/16	2 1/8	1 1/4	1 3/4	—	0.4
	20A31	Mike, or Line to P.P. Grids	50/125/200/333/500	89000 C.T.	10	8.93	4185	1:13.3	60-10000	500	BHH	Lugs	Lugs	2	3 1/4	1 3/4	2 13/16	—	1.0
	20A08	Mike, Pickup or Line to Grid	50/87.5 C.T. 200 C.T. 333/500 C.T.	72000	1	37.4	1335	1:12	100-20000	500	BAH	Lugs	Leads	1 3/16	2 1/16	1 1/4	1 3/4	—	0.21
B	20A32	Mike to S. Grid	70/200	80000	5	13.6	2650	1:20	200-5000	500	BAH	Leads	Leads	1 1/8	2 1/8	1 1/8	2	—	0.5
	20A30	Mike, Line to Grid	70	1300000	1	1.68	6830	1:137	200-5000	500	BGV	Leads	Leads	1 1/16	1 13/16	1 5/16	1 1/2	—	0.5
	20A33	Mike to Grid	100	60000	5	10.3	4480	1:24.5	200-5000	500	BAH	Leads	Leads	1 1/8	2 1/8	1 1/2	2	—	0.5
	20A09	Mike, Line to Grids	100	700000 C.T.	5	1.04	3625	1:83.3	100-15000	500	BAH	Leads	Leads	1 1/8	2 13/16	1 1/2	2 1/8	—	0.6
	20A21	Mike to S. Grid	200 C.T.	57000	10	42.9	2400	1:17	200-7000	1500	BHV	Lugs	Lugs	2	2 1/8	1 1/8	2	—	0.7
C	20A99	Line or Mike to Grid	400 C.T.	195000	1	5.45	1330	1:22.2	200-10000	500	BAH	Leads	Leads	1 3/16	2 1/16	1 1/4	1 3/4	—	0.21
	20A00	Line to S. or P.P. Grids	50/200/600 C.T.	60000 C.T.	1	18.1	1225	1:10	100-10000	500	BAH	Leads	Leads	1 1/8	2 1/8	1 1/4	2	—	0.5
	20A102	Line to S. or P.P. Grids	500/600 C.T.	60000 C.T.	1	24	1325	1:10	100-10000	1500	BAH	Leads	Leads	1 1/8	2 1/8	1 1/8	2	—	0.5
	20A01	Line to Grid	500/600 C.T.	240000	—	13	3330	1:20	20-5000	1500	FGV	Leads	Leads	2 1/8	2 1/8	2 1/8	2 1/8	—	0.8
	20A11	Line to P.P. Grids	500/600 C.T.	240000 C.T.	—	11.7	3120	1:20	60-10000	1500	BGH	Leads	Leads	2	3 1/4	2 1/8	2 13/16	—	1.0

INTERSTAGE: PLATE(S) TO GRID(S)

Section	TM Part No.	Impedance in Ohms		Max. Primary MADC	Turns Ratio	DC Resistance		Frequency Response ±3 DB	RMS Test Volts	Style	Termination		Outline Dimensions			Mounting Dimensions		Wt. Lbs.
		Primary	Secondary			Pri.	Sec.				Pri.	Sec.	H	W	D	MW	MD	
D	20A101	7000-15000	7000-15000	10	1:1	970	1238	60-10000	750	BAH	Leads	Leads	1 1/8	2 1/8	1 1/2	2 1/8	—	0.7
	20A16	7000-15000	28000-60000 C.T.	10	1:2	431	1158	100-10000	750	BAH	Leads	Leads	1 1/8	2 1/8	1 1/4	2	—	0.4
	20A18	7000-15000	63000-135000 C.T.	10	1:3	530	2160	100-10000	500	BAH	Leads	Leads	1 1/8	2 1/8	1 1/4	2	—	0.5
	20A22	7000-15000	63000-135000 C.T.	10	1:3	1250	3750	70-10000	500	BAH	Leads	Leads	2	3 1/4	2 1/8	2 13/16	—	1.0
	20A23	7000-15000	63000-135000 C.T.	10	1:3	1036	3720	50-10000	750	FGV	Leads	Leads	2 1/8	2 1/8	2 1/8	2 1/8	—	1.75
E	20A58	7000-22000	63000-180000	10	1:3	400	1500	100-10000	1000	BAH	Leads	Leads	1 1/8	2 1/8	1 1/8	2	—	0.5
	20A17	10000	40000 C.T.	8	1:2	258	812	60-10000	750	RAV	Leads	Leads	2	—	1 5/16	1 7/16	1 7/16	0.5
	20A93	10000	90000 C.T.	10	1:3	804	3100	100-10000	1000	BAH	Leads	Leads	1 1/8	2 1/8	1 1/2	2 1/8	—	0.7
	20A45	10000	90000	8	1:3	357	1447	60-10000	500	BAH	Leads	Leads	1 1/8	2 1/8	1 1/2	2	—	0.4
	20A19	10000 C.T.	90000 C.T.	8	1:3	553	2140	60-10000	500	BAH	Leads	Leads	1 1/8	2 13/16	1 1/8	2 1/8	—	0.8
F	20A14	15000 C.T. 15000 3750	33700 135000 C.T. 135000 C.T.	20	1:1.5 1:3 1:6	1225	3650	70-10000	1500	BAV	Leads	Leads	2 1/8	2 1/8	2 1/8	2 1/8	—	1.0
	20A13	20000 C.T.	45000 C.T.	25	1:1.5	2050	3053	50-10000	1000	GGV	Leads	Leads	2 13/32	2 11/32	2 1/8	1 1/4	1 1/4	1.75

DRIVER

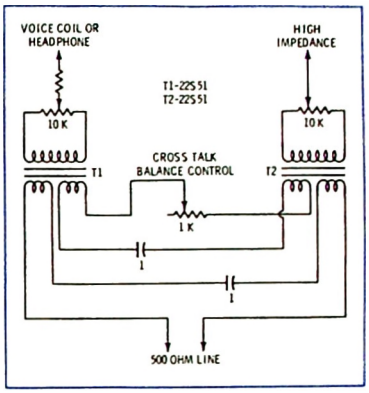
Section	TM Part No.	Impedance in Ohms		Max. Pri. MADC	Ratio Pri. : ½ Sec.	Audio Watts	Nominal DC Resistance		Frequency Response ±3 DB	RMS Test Volts	Style	Termination		Outline Dimensions			Mounting Dimensions		Wt. Lbs.
		Pri.	Sec.				Pri. Ohms	Sec. Ohms				Pri.	Sec.	H	W	D	MW	MD	
G	20D86	7000	4000 C.T.	30	2.5:1	10	961	1360	50-10000	1500	BAH	Leads	Leads	2	3 1/4	2 1/8	2 13/16	—	1.4
	20D89	7000	15800 C.T.	40	1.33:1	10	485	720	70-7000	1000	BAH	Leads	Leads	1 1/8	2 13/16	1 1/2	2 1/8	—	0.6
	20D23	8000-12000	8000-12000	30	2:1	5	1300	1620	100-20000	1500	BAH	Leads	Leads	1 1/8	2 1/8	1 1/2	2 1/8	—	0.75
	20D88	15000	8500 C.T.	15	2.66:1	.5	1026	223	300-3000	1000	BAH	Leads	Leads	1 1/16	2 1/16	1 1/4	1 1/4	—	0.2

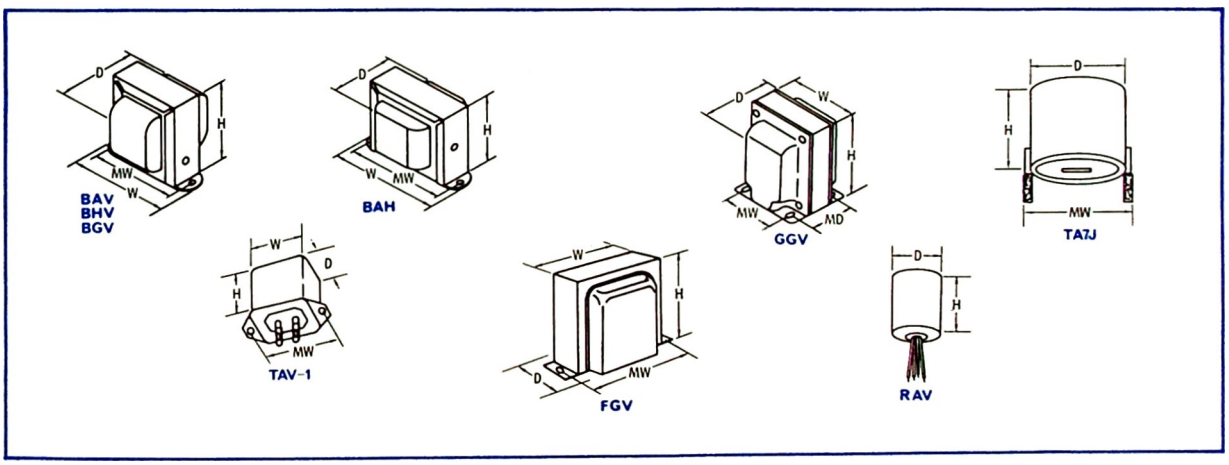
TRANSCEIVER/TELEPHONE PATCH/INTERCOM

Section	TM Part No.	Application	Impedance in Ohms Prl.	Impedance in Ohms Sec.	Audio Watts	Nominal DC Resistance Prl. Ohms	Nominal DC Resistance Sec. Ohms	Overall Turns Ratio	Frequency Response ±3 DB	RMS Test Volts	Style	Termination Prl.	Termination Sec.	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
	22S118	Line to Voice Coil	45-50	3.5/6-8	3	3.9	0.52	2.5:1	100-20000	1000	BHH	Lugs	Lugs	1⅜	2⅜	1½	2	—	0.5
	24S177	Line to Voice Coil	45-50	3-4/6-8	8	3.7	0.4	2.5:1	100-20000	1000	BHH	Lugs	Lugs	1⅜	2⅜	2⅜	2 1⁵⁄₁₆	—	0.7
	22S51	Telephone Patch Circuit	10000	500 ea.	5	470	96	4.5:1	200-4000	500	TAV-1	Leads	Leads	1 1⁵⁄₁₆	1 ⁹⁄₁₆	2¼	1 1⁵⁄₁₆	—	1.0
A	24S80	Transceiver Output	10000	2000 and 50	2	670	250 and 5	2.2:1 and 14.1:1	200-20000	500	BAH	Leads	Leads	1⅜	2⅜	1⅜	2	—	0.5
	20A80	Mike and/or Plate to Grid	10000 or 100	100000	1	347 or 3	1420	1:3.16 or 1:31.6	200-20000	500	BAH	Leads	Leads	1 3⁄16	2⅛	1¼	1¾	—	0.25

The circuit shown at the right is a typical "Patch" hybrid circuit using two 22S51 transformers.

This circuit is ideally suited for use in duplex radio communications where two way communication to and from a remote point is desired. It may also be adapted to operate sound distribution systems or speech amplifier and modulator for transmission from remote point. The output from a radio receiver may then be connected to the transformer marked T2 so that the received signal may be transmitted (through the 500 ohm line) to the remote point.





TV EXACT REPLACEMENTS

THORDARSON has the most complete line of TV exact replacement transformers in the industry. Color television flybacks, yokes, vertical output and power transformers are designed and manufactured as exact replacements for virtually all popular makes and models and many older black and white types are available too. Contact your THORDARSON distributor for FREE up-to-date TV replacement information.

THORDARSON

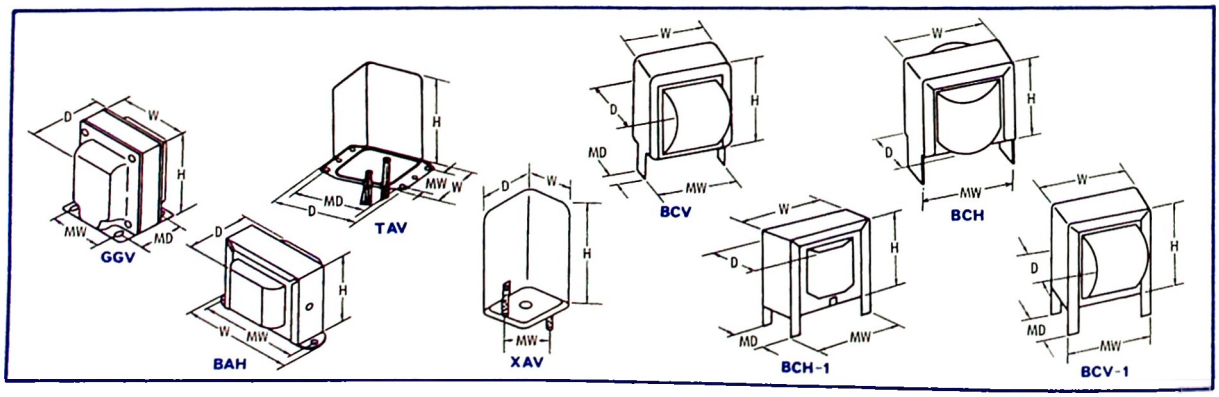
TRANSISTOR TRANSFORMERS

THORDARSON introduced the worlds first line of transistor transformers in 1956. With our pioneering efforts and continuing advancement, we are able to offer a complete selection of units for every application. The units may be used for applications other than those listed provided the specified ratings are observed. Transistor transformers are listed in order of increasing primary impedance.

TRANSISTOR TRANSFORMERS—AUDIO/LOW LEVEL GENERAL USE: WITH LEADS

Section	TM Part No.	Application	Impedance in Ohms		Max. Primary MADC	DC Resistance		Audio Watts	Style	Outline Dimensions			Mounting Dimensions		Wt. Lbs.
			Primary	Secondary		Primary Ohms	Secondary Ohms			H	W	D	MW	MD	
A	TR 307	M	8 C.T.	7500/5000 @ 120 MADC	—	.333	212.6	35	GGV	3½	2⅝	3	2	1 13/16	3.0
	TR 163	S	9	3.5	920	1.5	1.0	10	BCH-1	2	2 5/16	1½	1 5/16	1/16	1.0
	TR 306	D	20	36 C.T.	400	2.50	2.546	1.0	BAH	1 3/16	2 1/16	1⅛	1¼	—	0.20
	TR 300	S	20 C.T.	8	500	.55	.35	10	BAH	1⅜	2 1/16	1½	2	—	0.45
	25581	S	24 C.T.	16 C.T.*	200	2	1.2	10	TAV	4½	3⅜	3 9/16	3⅜	2¼	5.0
B	TR 304	S	25	4	400	1.5	0.4	4.0	BAH	1⅜	2 13/16	1½	2⅜	—	0.60
	TR 303	D	30	120*	—	1.8	3.6	4.0	BAV	2	2⅜	1½	2	—	0.60
	TR 61	S†	48 C.T.	3.2/8/16	550	1.9	1.4	5.0	BHV	1 11/16	2	1¼	1¾	—	0.05
	TR 60	S†	48 C.T.	3.2/8/16	550	3.6	1.4	10	BHV	2 5/16	2⅞	2	2⅜	—	0.90
	TR 196	S	48 C.T.	8/16	275	4.5	1.4	8.0	BAH	1 15/16	3⅛	1⅜	2 13/16	—	1.0
C	TR 305	A	50/100	10	50	6.77	.711	5.0	BAH	¾	1⅝	15/16	1⅛	—	0.15
	TR 64	D	100	100 C.T.	200	6.5	8.5	0.5	BAH	1¼	2⅛	1	1¾	—	—
	TR 195	D	100	100 C.T.	100	9.1	10	4.0	BAH	1⅜	2 13/16	1½	2⅜	—	0.60
	TR 65	D	100	200 C.T.	200	6.5	16.5	0.5	BAH	1¼	2⅛	1	1¾	—	0.20
	TR 296	J	100 C.T.	10 C.T.	100	4.3	0.8	0.25	BAH	1¼	2⅛	1 1/16	1¾	—	0.25
D	TR 257	J	100	1000 C.T.	100	5.5	60	1.0	BAH	1⅜	2⅜	1½	2	—	0.35
	TR 63	S	100 C.T.	3.2/8/16	500	6.6	1.5	10	BAV	2 5/16	2⅞	2	2⅜	—	0.95
	TR 67	S	125 C.T.	8	50	7.5	0.9	1.5	XAV	1¾	1¾	1¾	1¼	—	0.30
	TR 301	D	200 C.T.	400 C.T.	10	4.0	7.0	0.6	TAV	3	2 11/16	2 5/16	2⅜	1½	1.5
	TR 246	J	200 C.T.	2000 C.T.	2	29	233	0.2	BAH	¾	1⅛	1	1⅜	—	0.08
E	TR 66	D	500 C.T.	200 C.T.	50	37	17	0.5	BAH	1¼	2⅛	1	1¾	—	0.20
	TR 269	J	500 C.T.	5000 C.T.	12‡	40	245	1.0	BAH	1⅜	2⅛	1⅜	2	—	0.35
	TR 295	A	600 C.T.	10	20	40	0.8	.05	BAH	3/16	1 5/16	15/16	1⅜	—	0.07
	TR 238	D	1000	200 C.T.	10	428	128	1.0	BAH	⅜	1 9/32	1 1/16	1 1/16	—	0.05
	TR 179	D	1000	40	10	130	2.8	2.0	BCV-1	1 11/16	1½	1¼	1 13/32	17/32	0.35
F	TR 186	D	1000	10	10	160	1.0	2.0	BCV-1	1 11/16	1½	1⅜	1 13/32	17/32	0.35
	TR 116	S	1000	4/8/16	10	120	1.6	0.3	BAH	¾	1⅝	1	1⅜	—	0.07
	TR 263	J	2000 C.T.	500 C.T.	2.0	140	65	0.2	BAH	¾	1⅝	1	1⅜	—	0.07
	TR 260	D	2000 C.T.	200 C.T.	5.0	748	120	0.1	BAH	⅜	1 9/32	1 1/16	1 1/16	—	0.05
	TR 258	S	2000 C.T.	4/8/16	10	260	4	0.2	BAH	¾	1⅝	1	1⅜	—	0.08
	TR 298	S	9800	15	2§	640	2.0	0.5	BAH	⅜	1 9/32	1 1/16	1 1/16	—	0.05

†Has Lugs on Sec. *Split center tap winding. Applications—(A) Input, (D) Driver, (J) Interstage, (M) Modulation, (S) Output to Line, or V.C.



TRANSISTOR TRANSFORMERS

MINIATURE AUDIO: .150 WATT WITH MOUNTING TABS (3/16" WIDE) AND LEADS

Section	TM Part No.	Application	Impedance in Ohms		Nominal DC Resistance		Overall Turns Ratio	Style	Outline Dimensions			Mounting Dimensions		Wt. Lbs.
			Primary	Secondary	Primary Ohms	Secondary Ohms			H	W	D	MW	MD	
A	TR 12	J	100 C.T.	10 C.T.	13	1.5	3.16:1	BCH	11/16	13/16	5/8	13/16	—	.05
	TR 101	S	350 C.T.	4/12	38	1.45	2.6:1	BCH	11/16	13/16	5/8	13/16	—	.05
	TR 19	D, S	400 C.T.	11	27	1.3	6.04:1	BCH	11/16	13/16	5/8	13/16	—	.06
	TR 5	D	490 C.T.	150 C.T.	30	16	1.8:1	BCH	13/16	13/16	5/8	13/16	—	.05
	TR 11	D, S	500 C.T.	50	30	5	3.15:1	BCH	11/16	13/16	5/8	13/16	—	.05
B	TR 27	S	500 C.T.	3.2	30	0.3	125:1	BCH	11/16	13/16	5/8	13/16	—	.06
	TR 102	S	500 C.T.	4/8/16	75	3.5	5.52:1	BCH	11/16	13/16	5/8	13/16	—	.06
	TR 103	S	600 C.T.	4/8/16	73	3.2	5.65:1	BCH	11/16	13/16	5/8	13/16	—	.06
	TR 104	S	825 C.T.	4/8/16	74	2.7	6.75:1	BCH	11/16	13/16	5/8	13/16	—	.06
	TR 105	S	1250	4/12	132	1.4	9.78:1	BCH	11/16	13/16	5/8	13/16	—	.06
C	TR 4	D, S	1500	500 C.T.	100	45	1.73:1	BCH	11/16	11/16	5/8	13/16	—	.05
	TR 107	S	2500	4/16	370	2.3	11.81:1	BCH	11/16	13/16	5/8	13/16	—	.06
	TR 2	D, J	5000 C.T.	7500 C.T.	550	980	1:1.2	BCH	13/16	13/16	5/8	13/16	—	.05
	TR 3	D, J	5000 C.T.	10000 C.T.	550	1100	1:1.4	BCH	11/16	13/16	5/8	13/16	—	.05
	TR 10	A, J	5000 C.T.	45000 C.T.	310	1400	1.3	BCH	11/16	13/16	5/8	13/16	—	.05
D	TR 108	A, J	5000 C.T.	80000 C.T.	573	5740	1:4	BCH	11/16	13/16	5/8	13/16	—	.05
	TR 13	A, J	5000 C.T.	80000	260	1520	1:4	BCH	11/16	13/16	5/8	13/16	—	.05
	TR 23	D, S	10000	2000	900	11	7.05:1	BCH	1 3/16	1 7/16	1	1 3/8	—	.05
	TR 7	J	10000	2000 C.T.	740	300	2.24:1	BCH	11/16	13/16	5/8	13/16	—	.04
	TR 6	D, J	10000	3000 C.T.	820	660	1.8:1	BCH	11/16	13/16	5/8	13/16	—	.05
E	TR 109	S	10000 C.T.	4/8/16	1174	2.6	24.54:1	BCH	11/16	13/16	5/8	13/16	—	.06
	TR 106	A, J	1200	20000 C.T.	142	1860	1:4.1	BCH	11/16	13/16	5/8	13/16	—	.05
	TR 17	J	20000	800 C.T.	1300	95	5:1	BCH	11/16	13/16	5/8	13/16	—	.05
	TR 26	A, D	50000	500 C.T.	1300	30	10:1	BCH	11/16	13/16	5/8	13/16	—	.05
	TR 34	A	50000	30 C.T.	1400	2.5	38.7:1	BCH	11/16	13/16	5/8	13/16	—	.05

MINIATURE AUDIO: .300 WATT WITH BAH MOUNTING AND LEADS

Section	TM Part No.	Application	Impedance in Ohms		DC Resistance		Overall Turns Ratio	Style	Outline Dimensions			Mounting Dimensions		Wt. Lbs.
			Primary	Secondary	Primary Ohms	Secondary Ohms			H	W	D	MW	MD	
F	TR 111	S	100 C.T.	4/8/16	11	1.5	2.5:1	BAH	3/4	1 3/8	13/16	1 3/8	—	0.12
	TR 112	S	160	4/8/16	19	1.5	3.27:1	BAH	3/4	1 3/8	13/16	1 3/8	—	0.12
	TR 113	S	400 C.T.	4/8/16	32	1.5	2.5:1	BAH	3/4	1 3/8	13/16	1 3/8	—	0.12
	TR 1	D, S	500 C.T.	500 C.T.	40	55	1:1	BAH	3/4	1 3/8	13/16	1 3/8	—	0.12
	TR 114	S	500 C.T.	4/8/16	47	.85	2.78:1	BAH	3/4	1 3/8	13/16	1 3/8	—	0.12
G	TR 115	S	700 C.T.	4/8/16	77	1.15	33.3:1	BAH	3/4	1 3/8	13/16	1 3/8	—	0.12
	TR 117	S	2500	4/8/16	172	1.15	12.5:1	BAH	3/4	1 3/8	13/16	1 3/8	—	0.12
	TR 118	S	3000	4/8/16	192	1.2	13.7:1	BAH	3/4	1 3/8	13/16	1 3/8	—	0.12
	TR 261	D	20000 C.T.	2000 C.T.	2140	327	3.2:1	BAH	1 3/16	1 3/8	1	1 3/8	—	0.12
	TR 36	A	500000	200 C.T.	7000	8.5	1:50	BAH	3/4	1 3/8	13/16	1 3/8	—	0.12
H	TR 24	A, J	100000	1500 C.T.	3000	45	8.6:1	BAH	3/4	1 3/8	13/16	1 3/8	—	0.12
	TR 119	A	1000 C.T.	200000 C.T.	123	1815	1:14.1	BAH	3/4	1 3/8	13/16	1 3/8	—	0.12
	TR 28	A	200000	1000	3000	30	14.1:1	BAH	3/4	1 3/8	13/16	1 3/8	—	0.12

Application—(A) Input, (D) Driver, (J) Interstage, (S) Output to Line, or V.C.

FLYBACKS AND YOKES FOR DISPLAY INFORMATION SYSTEMS AND MONITORS

THORDARSON designs and manufactures flybacks and yokes to customer specifications for a broad range of display applications. Our high voltage transformers feature flame retardant construction in all configurations. Contact factory with your display requirements.

THORDARSON

TRANSISTOR TRANSFORMERS

MINIATURE AUDIO: .150 WATT WITH PRINTED CIRCUIT MOUNTING

Section	TM Part No.	Application	Impedance in Ohms		DC Resistance		Overall Turns Ratio	Style	Outline Dimensions			Mounting Dimensions		Wt. Lbs.
			Primary	Secondary	Primary Ohms	Secondary Ohms			H	W	D	MW	MD	
A	TR 315	D	490 C.T.	150 C.T.	65	20	1.8:1	PCT	1 1/16	3/4	9/16	.36	.42	0.05
	TR 314	D, S	1500	500 C.T.	100	45	1.73:1	PCT	1 1/16	3/4	9/16	.36	.42	0.05
	TR 312	D, J	5000 C.T.	7500	550	980	1:1.23	PCT	1 1/16	3/4	9/16	.36	.42	0.05
	TR 308	A, J	5000 C.T.	80000 C.T.	573	5740	1:4	PCT	1 1/16	3/4	9/16	.36	.42	0.05
	TR 316	D, J	10000	3000 C.T.	820	660	1.83:1	PCT	1 1/16	3/4	9/16	.36	.42	0.05
	TR 317	J	10000	2000 C.T.	740	300	2.24:1	PCT	1 1/16	3/4	9/16	.36	.42	0.05

MINIATURE AUDIO: .300 WATT WITH PRINTED CIRCUIT MOUNTING

Section	TM Part No.	Application	Impedance in Ohms		DC Resistance		Overall Turns Ratio	Style	Outline Dimensions			Mounting Dimensions		Wt. Lbs.
			Primary	Secondary	Primary Ohms	Secondary Ohms			H	W	D	MW	MD	
B	TR 311	D, S	500 C.T.	500 C.T.	40	55	1:1	PCT-3	1 3/16	1	7/8	.50	.72	0.10
	TR 338	A	200000	1000	3000	30	14.13:1	PCT-3	1 3/16	1	7/8	.50	.72	0.10
	TR 482	A	2000 C.T.	2000 C.T.	2140	325	3.17:1	PCT-3	1 3/16	1	7/8	.50	.72	0.10

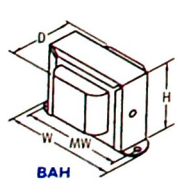
Application—(A) Input, (D) Driver, (J) Interstage, (S) Output.

MINIATURE AUDIO: LOW LEVEL/SPECIAL APPLICATION

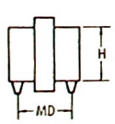
Section	TM Part No.	Application	Impedance in Ohms		DC Resistance		Overall Turns Ratio	Max. Unbal. Pri. MADC	Audio Watts	Style	Outline Dimensions			Mounting Dimensions		Wt. Lbs.
			Primary	Secondary	Primary Ohms	Secondary Ohms					H	W	D	MW	MD	
C	TR 111	Output	100 C.T.	4/8/16	11	1.5	2.5:1	2.0	0.3	BAH	3/4	1 1/8	1 3/16	1 1/8	—	0.07
	27S93	TR or Voice Coil	150 C.T.	12	16	3.0	3.4:1	10	0.05	M3‡						0.01
	TR 240	Output	500 C.T.	125/500*	50	55	1:1.1	5.0	0.02	BAH	1/8	1 7/32	3/4	1	—	0.02
	27S100	Output or Mixing	500 C.T.	600	60	90	1:1.1	3.0	0.05	M3‡						0.01
	TR 114	Output	500 C.T.	4/8/16	47	0.85	2.78:1	2.0	0.3	BAH	3/4	1 1/8	1 3/16	1 1/8	—	0.07
D	27S111	TR or Line/Line	600 C.T.	600 C.T.	65	85	1:1	3.0	.05	M3‡						0.01
	25A113	Line to Line Mike to Line	150/600*	150/600*	40	40	1:1	3.0	0.05	TAJ	1 1/4	1 1/8	Dia.	3/8	—	0.5
	TR 405	Interstage	600 C.T.	1200 C.T.	39.2	97	1:1.41	16	0.15	BAH	1 5/32	1 1/16	1 5/32	1	—	0.05
	25A103	Mike/Line to Grid	150/600*	60000	50.3	4870	1:10	—	0.01	TAJ	1 1/4	1 1/8	Dia.	3/8	—	0.1
	27S105	TR or Voice Coil	600 C.T.	3.2	70	1	13.7:1	4.5	0.05	M3‡						0.01
E	27S95	TR or Voice Coil	600 C.T.	12	70	2.6	7.1:1	4.5	0.05	M3‡						0.01
	27S101	TR to Line	900 C.T.	600	100	90	1.2:1	4.0	0.05	M3‡						0.01
	27S102	TR to Line	1500 C.T.	600	150	100	1.6:1	3.0	0.05	M3‡						0.01
	TR 249	Interstage	2000	1500 C.T.	165	40	1.15:1	2.0	0.2	BAH	3/4	1 1/8	1	1 1/8	—	0.07
	TR 250	Interstage	2000 C.T.	8000 C.T.	200	550	1:2	4.0	0.2	BAH	3/4	1 1/8	1	1 1/8	—	0.07

*Split Center Tap Winding ‡M3 Style: H-0.465, W-0.410, D-0.310 Mounting is P.C. with 2/32" Grid Spacing.

Listing continued on next page



BAH



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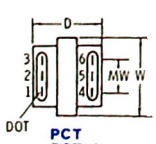
PCT-3



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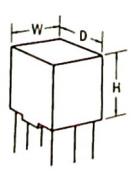
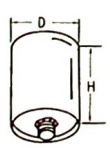
PCT-3

RAV-6



M3



TAJ

TRANSISTOR TRANSFORMERS

MINIATURE AUDIO: LOW LEVEL/SPECIAL APPLICATION (Cont'd)

Section	TM Part No.	Application	Impedance in Ohms		DC Resistance		Overall Turns Ratio	Max. Unbal. Pri. MADC	Audio Watts	Style	Outline Dimensions			Mounting Dimensions		Wt. Lbs.
			Primary	Secondary	Primary Ohms	Secondary Ohms					H	W	D	MW	MD	
A	27S110	Output or Isolation	10000 C.T.	10000 C.T.	1050	1100	1:1	1.0	0.05	M3‡						0.01
	27D38	Driver	10000 C.T.	2000 C.T.	1100	500	2.2:1	1.0	0.05	M3‡						0.01
	27A112	TR Interstage	10000 C.T.	1500 C.T.	1100	275	2.6:1	1.0	0.05	M3‡						0.01
	27D37	Driver	10000 C.T.	1200 C.T.	1100	400	2.9:1	1.0	0.05	M3‡						0.01
	27D39	Driver	10000 C.T.	500 C.T.	1100	75	4.5:1	0.5	0.05	M3‡						0.01
B	27A111	TR Interstage	25000 C.T.	1000 C.T.	1500	100	5:1	0.5	0.04	M3‡						0.01
	27A108	TR Interstage	50000 C.T.	1000 C.T.	3500	70	7.1:1	0	0.025	M3‡						0.01
	27A109	Input	200000	1000	4870	90	14.1:1	0	0.01	M3‡						0.01
	27A107	Chopper Input	200000 C.T.	1000 C.T.	4870	90	14.1:1	0	0.01	M3‡						0.01
	27C80	Inductor	1.25 Hys.	—	180	—	—	2.0	—	M3‡						0.01
C	27C79	Inductor	6 Hys.	—	1700	—	—	2.0	—	M3‡	.422	.453	.344			0.01
	TR 486	Magnetic Shield for Style M3 Housings														—

‡M3 Style: H-0.465, W-0.410, D-0.310 Mounting is P.C. with 1/10" Grid Spacing.

MIL-T-27 MINIATURE

Designed and built to meet MIL-T-27, grade 5, class R specifications. Ruggedly constructed, these units have exceptional reliability along with the highest ratings available in an extremely reduced size. They can be used for different impedances than specified by keeping the primary to secondary impedance ratio constant. Usable frequency range is 100 to 20,000 Hertz. Dimensions shown in the RAV drawing are nominal.

STYLE RAV-6 D = 11/32 H = 15/32

Section	TM Part No.	Application	Overall Turns Ratio	Impedance in Ohms		Max. Pri. MADC	Primary Resistance Ohms	Power in Milliwatts
				Primary	Secondary			
D	MIT 241	J, S, P	1:1	400/500 C.T.	400/500*	8/6	47	500
	MIT 247	J	1:1	9000/10000 C.T.†	9000/10000 C.T.	1	801	100
	MIT 236	J, P	1:1	10000/12000 C.T.	10000/12000 C.T.	1	872	100
	MIT 220	S, M	1:1.1	500 C.T.	600	5.6	35	500
	MIT 221	S	1.22:1	900 C.T.	600	4	61	500
E	MIT 219	S, M	1:1.41	300 C.T.	600	7	20.1	500
	MIT 244	J, M, S	1.57:1	80/100 C.T.	32/40*	12/10	10.9	500
	MIT 222	S, M	1.58:1	1500 C.T.	600	3	85	500
	MIT 242	D, J	1.82:1	400/500 C.T.	120/150*	8/6	47	500
	MIT 237	J, P	1:2	2000/2500 C.T.	8000/10000*	3	228	100
F	MIT 211	D, J	2.21:1	10000/12500	2000/2500 C.T.	1	820	100
	MIT 238	D, J	2.23:1	10000/12000 C.T.	2000/2400*	1	612	100
	MIT 226	D, J	2.58:1	10000/12000 C.T.	1500/1800 C.T.	1	822	100
	MIT 248	J	2.58:1	8000/10000 C.T.	1200/1500 C.T.	1	640	100
	MIT 210	D, J	2.88:1	10000/12500	1200/1500 C.T.	1	822	100
G	MIT 243	J, M, S	3.15:1	400/500 C.T.	40/50*	8/6	42	500
	MIT 202	S, M	3.17:1	500/600	50/60	3	73	100
	MIT 212	S	3.54:1	150/200 C.T.	12/16	10	11	500
	MIT 245	J, P	4:1	1000/1250 C.T.	16000/20000*	3.5	105	100
	MIT 203	S, M	4.47:1	1000/1200	50/60	3	114	100
H	MIT 209	D, S	4.5:1	10000/12000	500/600 C.T.	1	708	100
	MIT 239	D, J	4.5:1	20000/30000 C.T.	1000/1500*	.5	780	100
	MIT 213	S	5:1	300/400 C.T.	12/16	7	20	500
	MIT 201	D, J	5:1	20000/30000	800/1200	.5	915	50
	MIT 223	D, J	5:1	20000/30000 C.T.	800/1200 C.T.	.5	915	100

†Balanced Current *Split Center Tap Winding

Listing continued on next page

THORDARSON has additional standard and stocked **TRANSISTOR TRANSFORMERS** which are not listed in this catalog. Contact factory for additional information.

THORDARSON

TRANSISTOR TRANSFORMERS

MIL-T-27 MINIATURE

STYLE RAV-6 D = 11/32 H = 15/32

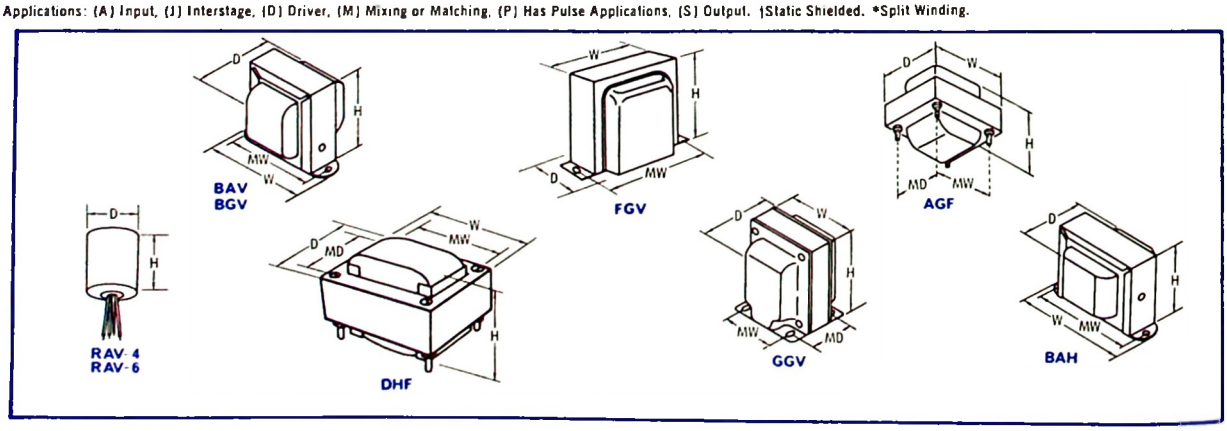
Section	TM Part No.	Application	Overall Turns Ratio	Impedance in Ohms		Max. Pri. MADC	Primary Resistance Ohms	Power in Milliwatts
				Primary	Secondary			
A	MIT 228	S	6.35:1	120/150 C.T.	3.2/4	10	10	500
	MIT 214	S	7.06:1	600/800 C.T.	12/16	5	42	500
	MIT 215	S	8.2:1	800/1070 C.T.	12/16	4	51	500
	MIT 216	S	9.12:1	1000/1330 C.T.	12/16	3.5	70	500
	MIT 230	S	10:1	320/400 C.T.	3.2/4	7	20.1	500
B	MIT 217	S	11.2:1	1500/2000 C.T.	12/16	3	110	500
	MIT 204	S, M	13.7:1	600	3.2	3	60.2	100
	MIT 231	S	14.1:1	640/800 C.T.	3.2/4	5	42	500
	MIT 246	A	14.6:1	100000 C.T.†	500 C.T.	0	7500	25
	MIT 207	A	14.6:1	200000	1000	0	8200	25
C	MIT 224	A	14.6:1	200000 C.T.	1000 C.T.	0	8200	25
	MIT 232	S	15.8:1	800/1000 C.T.	3.2/4	4	53	500
	MIT 233	S	18.2:1	1060/1330 C.T.	3.2/4	3.5	71	500
	MIT 205	S	19.3:1	1200	3.2	2	125	100
	MIT 234	S	20.3:1	1600/2000 C.T.	3.2/4	3	110	500
D	MIT 218	S	25:1	7500/10000 C.T.	12/16	1	500	100
	MIT 240	J, S	31.6:1	40000/50000 C.T.	400/500*	.25	1700	50
	MIT 235	S	50:1	8000/10000 C.T.	3.2/4	1	425	500
	MIT 206	S	56:1	10000	3.2	1	795	100
	MIT 249	Inductor	Series Connected: 8H @ 3MADC Parallel Connected: 2H @ 6MADC				5100 1270	
E	MIT 226	Inductor	1.5H @ 5MADC				2160	
	MIT 208	Inductor	1H @ 5MADC				617	
	MIT 227	Inductor	.5H @ 11MADC				103	
	MIT 228	Inductor	.15H @ 20MADC				24	
	MIT 250	Inductor	Series Connected: .06H @ 30MADC Parallel Connected: .015H @ 60MADC				10 2.5	

†Balanced Current *Split Center Tap Winding

STYLE RAV-4 D = 11/32 H = 13/32

Section	TM Part No.	Application	Overall Turns Ratio	Impedance in Ohms		Max. Pri. MADC	Primary Resistance Ohms	Power in Milliwatts
				Primary	Secondary			
F	MIT 266	Inductor	.5 Hys. @ 6MADC				105	
	MIT 283	J, P	1:1	10000/12000 C.T.	10000/12000 C.T.	1.0	975	100
	MIT 280	D, S	2.9:1	10000/12500 C.T.	1200/1500 C.T.	1.0	870	100
	MIT 284	D, J	5:1	20000/30000 C.T.	800/1200 C.T.	0.5	700	50

Applications: (A) Input, (J) Interstage, (D) Driver, (M) Mixing or Matching, (P) Has Pulse Applications, (S) Output. †Static Shielded. *Split Winding.



THORDARSON

POWER TRANSFORMERS

The following broad selection of power transformers are listed in order of increasing plate voltage. The dc ma ratings*, (sections A-D) for part numbers 24R72 thru 24R91 inclusive are for capacitor input, full wave bridge circuits. Starting with 24R105, (section E) the ratings reflect full wave center-tapped capacitor input circuits. All listed transformers may be used in other circuits by applying factors shown in the chart on page 32.

PLATE AND FILAMENT: PRIMARY 117V 50/60 Hz. WITH LEADS

Section	TM Part No.	Plate Supply		Rectifier Fil.		Other Windings		Style	Outline Dimensions			Mounting Dimensions		Wt. Lbs.
		Volts AC	MADC	Volts	Amps	Volts	Amps		H	W	D	MW	MD	
A	24R72	117	15	6.3	0.6	—	—	BAH	1⅝	2 1/16	1⅝	2⅜	—	1.0
	26R32	117	20	6.3 C.T.	0.7	—	—	BGV	2	2⅛	1 11/16	2	—	1.0
	26R162	115	290	—	—	2.7 6.3	0.45 8.0	AGF	4	2 1/16	3 1/16	2 1/16	3	5.7
	26R165	117	300	—	—	6.3	10.0	GGH	3½	3¼	4	2½	2¼	6.9
	26R105	117/110	900	6.3 C.T.	10.0	—	—	GGH	3¼	3¼	3¾	2½	2⅛	4.0
B	26R106	117/110	900	6.3	10.0	—	—	AGF	2⅝	3⅛	2 11/16	2 11/16	2¾	4.0
	26R37	125	15	6.3	0.6	—	—	BAV	2	2⅛	1⅝	2	—	0.7
	24R165	125	15	—	—	12.6	0.3	BAV	1 15/16	2⅛	1⅝	2	—	0.7
	26R38	125	50	6.3	2.0	—	—	BAH	2¼	3 11/16	2⅛	3⅛	—	1.5
	24R167	125	50	—	—	12.6	1.0	BAH	2¼	3 11/16	2⅛	3⅛	—	1.5
C	24R71	135	50	6.3	1.5	—	—	BAH	2¼	3¼	2⅛	3⅛	—	1.5
	26R155	140	1150	5.2	1.7	12.6 C.T.	11.0	GGV	4½	3¼	5	3	3⅛	8.5
	26R60	150	25	6.3	.5	—	—	BGV	2	2⅛	1 11/16	2	—	0.7
	24R168	150	25	—	—	12.6	0.3	GGV	1 15/16	2⅛	1 11/16	2	—	0.8
	22R12	150	50	6.3	1.5	—	—	BAH	2¼	3 11/16	2⅛	3⅛	—	1.5
D	26R150	155	450	6.3	2.0	6.3	13.5	GGV	4⅛	3½	4½	3 1/16	3⅞	9.0
	26R148	155	485	6.3	1.4	6.3 12.6 C.T.	1.8 11.2	GGV	4 9/16	3⅝	4⅜	3	3⅛	8.0
	26R148	160	500	6.3	1.4	6.3 12.6 C.T.	1.6 5.5	GGV	4½	3½	4⅜	2¼	3 1/16	6.5
	26R159	315	550	6.3	1.8	6.3	12.0	GGV	4½	3½	4½	3½	3⅝	7.25
	26R152	320	480	6.3	1.9	6.3	12.0	GGV	4⅝	3½	4¼	3½	3⅝	7.75
E	24R91	1800	4	2.5	1.75	—	—	GGV	3⅛	2⅝	2⅛	2	2	2.7
	24R105	30-0-30	2.5A	6.3	1.5	6.3	1.5	GGV	4 5/16	3⅛	3 13/16	2¼	2 1/16	6.0
	24R108	120-0-120	250	5.0	3.0	—	—	GGV	4	3¼	3⅛	2½	1 15/16	4.2
	22R39	125-0-125	25	6.3	1.0	—	—	BAV	2⅛	2⅛	1¾	2⅛	—	1.0
	24R166	125-0-125	25	—	—	12.6	0.6	BAV	2 5/16	2 1/16	1¾	2⅛	—	1.0
F	24R101	150-0-150	600	6.3	2.5	6.3	2.5	GGV	4 5/16	3⅛	4 5/16	2¾	3 1/16	7.1
	22R94	190-160-0-160/190	70	6.3	0.6	6.3 C.T.	3	GGV	3 1/32	2 21/32	2⅛	2	1¾	2.75
	26R164	200-0-200	110	—	—	6.3 6.3 C.T.	2.0 4.0	GGV	3½	2½	3¼	2	2¼	3.0
	24R10	220-0-220	50	6.3	0.6	25.2	0.5	GGV	3 5/16	2⅝	2⅝	2	1 9/16	2.2
	24R11	230-0-230	50	6.3	2.5	—	—	AGF	2⅝	3	2½	2	1 9/16	2.2
G	24R11U	230-0-230	50	6.3	2.5	—	—	GGV	3 1/16	2⅝	2⅝	2	2½	2.2
	24R00	240-0-240	40	5	2	6.3 C.T.	2	AGF	2⅝	3	2½	2	2½	2
	24R00U	240-0-240	40	5	2	6.3 C.T.	2	GGV	3⅛	2⅝	2⅝	2	1 9/16	2
	24R19	240-0-240	55	5	2	6.3 C.T.	2	AGF	2¾	2½	3	2	2½	2.5
	24R19U	240-0-240	55	5	2	6.3 C.T.	2	GGV	3⅛	2¾	2¾	2	1 11/16	2.5
H	24R12	240-0-240	70	6.3	3	—	—	AGF	2⅛	2½	3	2	2½	2.6
	24R12U	240-0-240	70	6.3	3	—	—	GGV	3⅛	2½	2⅛	2	1 13/16	2.6
	24R89	250-0-250	10	6.3	.6	6.3	1.2	FGV	2¼	2⅛	2⅛	2⅜	—	1
	24R90	250-0-250	20	6.3	.6	6.3	1.2	FGV	2⅜	3¼	2¼	2 1/16	—	1.5
	22R00	250-0-250	40	5	2	6.3 C.T.	2	AGF	2½	3	2½	2	2½	2
I	24R09	250-0-250	70	5	2	6.3 C.T.	2.5	AGF	3½	3	2½	2	2½	3.2
	24R09U	250-0-250	70	5	2	6.3 C.T.	2.5	GGV	3⅛	2⅝	3⅛	2	2 1/16	3.2
	24R13	260-0-260	90	5	2	6.3 C.T.	3	AGF	3⅛	2⅝	3⅛	2¼	2 1/16	4
	24R13U	260-0-260	90	5	2	6.3 C.T.	3	GGV	3½	2⅛	3⅛	2¼	2¼	4

*See above

Listing continued on next page

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POWER TRANSFORMERS

PLATE AND FILAMENT: PRIMARY 117V 50/60 Hz. WITH LEADS (Cont'd)

Section	TM Part No.	Plate Supply Volts AC	Plate Supply MADC	Rectifier FIL Volts	Rectifier FIL Amps	Other Windings Volts	Other Windings Amps	Style	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
A	26R31	260-0-260	90	—	—	6.3	4	AGF	3½	2⅝	3⅜	2¼	2 11/16	3.5
	26R31U	260-0-260	90	—	—	6.3	4	GGV	3½	2⅝	3⅜	2¼	2⅛	3.5
	26R88	265-0-265	300	5	6	6.3 6.3 6.3	6.0 6.0 1.2	AGF	5	3¼	4½	3	3¼	11
	24R20	270-0-270	120	5.0	3.0	6.3 C.T.	3.5	AGF	3¼	3⅛	3¼	2½	3⅛	5.0
	24R20U	270-0-270	120	5.0	3.0	6.3 C.T.	3.5	GGV	3⅛	3⅛	3⅛	2½	2 11/16	5.0
B	26R44	270-0-270	200	5.0	3.0	6.3	8.5	AGF	4¼	3⅛	3¼	2 11/16	3 5/16	6.2
	26R160	270-0-270	260	5.0	3.0	6.3	8.8	GGV	3⅛	3⅛	3½	2½	2¼	5.5
	26R116	270-0-270	300	5.0	3.8	6.3	10	AGF	3⅜	3¾	3½	3 5/16	2 11/16	5.5
	22R01	275-0-275	50	5.0	2.0	6.3 C.T.	2.5	AGF	2½	3	2½	2	2½	2.2
	22R30	275-0-275	50	5.0	2.0	6.3 C.T.	2.5	GGV	3⅛	2⅝	3½	2	2¼	2.2
C	26R121	275-0-275	300	5.0	6.0	6.3 6.3 6.3	2.0 5.0 8.0	AGF(X) GGV(X) GGH(X)	4¾ 3¾ 3¾	3¾ 3⅛ 3¾	3¾ 4⅜ 4¾	3½ 2½ 2½	2½ 3¼ 3⅜	9.0
	26R72	280-0-280	400	5.0	6.0	6.3 6.3	4.5 8.5	AGF	6	3 13/16	4¾	3 5/16	4 1/16	13
	26R50	279-0-279	265	5.0	5.0	6.3 6.3 6.3	7.1 1.2 0.9	AGF	4¼	3¼	4½	3	3¼	8.5
	26R123	280-0-280	300	5.0	4.0	6.3	10.0	GGV	3¾	3⅛	3⅜	2½	2⅜	7.0
	26R161	280-0-280 250-0-250	300	5.0/3.0*	4.5	6.3 24.0	10 1.2	GGV	3⅜	3¼	4⅛	2½	3¼	7.9
D	26R122	280-0-280	280	5.0	3.0	6.3	9.5	AGF(X) GGV(X) GGH(X)	3 1/16 3¾ 3½	3¾ 3¼ 3¾	3½ 3 11/16 3 11/16	3¼ 2½ 2½	2½ 2 5/16 2 5/16	6.0 6.0 6.0
	26R51	281-0-281	250	5.0	3.0	6.3	9.5	GGH	3⅝	4⅛	4⅝	1 13/16 2½	2¼ 2⅛	6.2
	26R163	290-0-290	290	5.0	3.0	6.3 6.3	5.0 5.0	AGF	5	3⅛	3 11/16	2 11/16	3 5/16	6.9
	24R96	300-0-300	65	—	—	6.3 C.T.	2.7	GGV	3½	2⅝	2½	2	1¾	2.7
	22R02	300-0-300	70	5.0	2.0	6.3 C.T.	3.0	AGF	3½	2½	3	2	2½	2.7
E	24R21U	300-0-300	70	5.0	3.0	6.3 C.T.	3.0	GGV	3⅝	3	3¼	2¼	2⅜	4.0
	22R04	300-0-300	90	5.0	2.0	6.3 C.T.	3.5	AGF	3¼	2 13/16	3⅜	2¼	2⅛	3.0
	22R05	300-0-300	120	5.0	3.0	6.3 C.T.	5.0	AGF	3⅜	3⅛	3¼	2½	3⅛	4.2
	22R05U	300-0-300	120	5.0	3.0	6.3 C.T.	5.0	GGV	3⅛	3¼	3⅜	2½	2 5/16	4.2
	26R71	300-0-300	230	5.0	3.0	6.3	9.0	AGF	4¼	3 7/16	4½	2¾	3 7/16	8.0
F	26R136	300-0-300	325	5.0	6.0	6.3 6.3	8.8 1.5	AGF	5½	3¼	4½	3 5/16	4 1/16	13
	24R01	325-0-325	40	5.0	2.0	6.3 C.T.	2.0	AGF	2⅜	2½	3	2	2½	2.5
	24R01U	325-0-325	40	5.0	2.0	6.3 C.T.	2.0	GGV	3⅛	2⅝	2⅝	2	1¾	2.5
	24R08	325-0-325	55	5.0	2.0	6.3 C.T.	2.0	AGF	3⅛	3	2½	2	2½	3.2
	24R08U	325-0-325	55	5.0	2.0	6.3 C.T.	2.0	GGV	3⅛	2½	3⅛	2	2 1/16	3.2
G	24R87	325-0-325	150	5.0	3.0	6.3 C.T.	5.0	GGV	4	3⅛	3¾	2½	2 5/16	5.8
	22R06	325-0-325	150	5.0	3.0	6.3 C.T.	5.0	AGF	3¾	3⅛	3¾	2½	3⅛	5.5
	26R46	328-0-328	270	5.0	3.0	12.6 C.T.	5.25	GGV-1	4⅛	3¾	4 13/16	3	3 13/16	8.0
	24R02	350-0-350	70	5.0	2.0	6.3 C.T.	2.5	AGF	3⅛	3⅜	2⅞	2¼	2⅞	3.8
	24R02U	350-0-350	70	5.0	2.0	6.3 C.T.	2.5	GGV	3½	2⅞	3½	2¼	2½	3.8
H	24R164	350-0-350	70	5.0	3.0	6.3 C.T.	2.5	AGF	3 1/16	3	2 9/16	2	2½	4.0
	22R142	350-0-350	90	—	—	6.3 C.T.	3.0	GGV	3 1/16	2½	2 11/16	2	2 1/16	3.8
	24R40	350-0-350	90	5.0	2.0	6.3 C.T.	3.0	AGF	3¼	2 13/16	3⅜	2¼	2 13/16	4.5
	24R40U	350-0-350	90	5.0	2.0	6.3 C.T.	3.0	GGV	3¼	3	3¾	2¼	2⅝	4.5
	24R04	350-0-350	90	5.0	3.0	6.3 C.T.	3.5	AGF	4	2⅞	3⅛	2¼	2⅞	4.5
I	24R04U	350-0-350	90	5.0	3.0	6.3 C.T.	3.5	GGV	3½	2⅞	3⅜	2¼	2⅝	4.5
	22R32	350-0-350	110	5.0	2.0	6.3 C.T. 6.3 C.T.	3.0 3.0	GGV	3⅜	3¼	4	2½	2 11/16	5.8
	24R05	350-0-350	120	5.0	3.0	6.3 C.T.	4.7	AGF	4½	3⅛	3¾	2½	3⅛	5.7
	24R05U	350-0-350	120	5.0	3.0	6.3 C.T.	4.7	GGV	3⅜	3¼	3⅜	2½	2 5/16	5.7
	22R07	350-0-350	200	5.0	3.0	6.3 C.T.	6.0	AGF	3⅜	3¼	4½	3	3¼	7.0
	24R22	360-0-360	120	5.0	3.0	6.3 C.T.	3.5	AGF	3¾	3⅛	3¾	2½	3⅛	5.5

*5-Volt winding is tapped at 3 volts. (X) Has universal mtg. bkt.

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POWER TRANSFORMERS

PLATE AND FILAMENT: PRIMARY 117V 50/60 Hz. WITH LEADS (Cont'd)

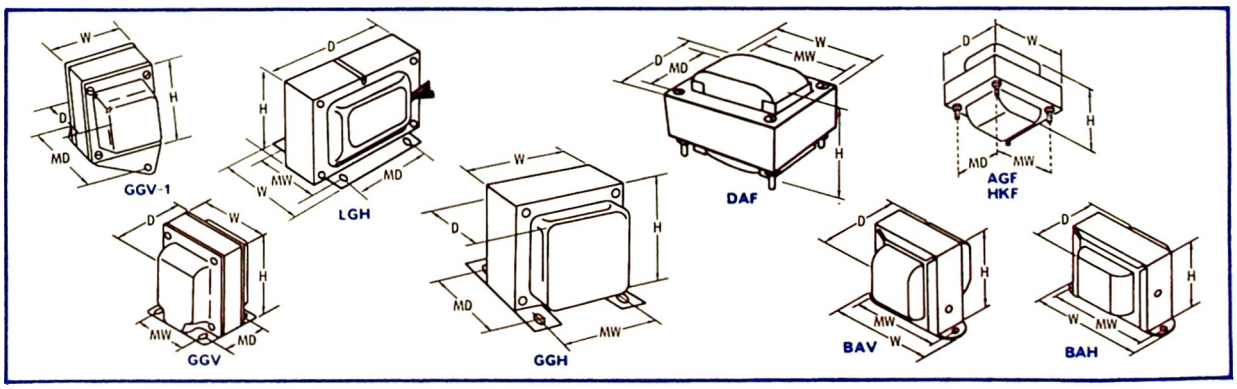
Section	TM Part No.	Plate Supply Volts AC	Plate Supply MADC	Rectifier Fil. Volts	Rectifier Fil. Amps	Other Windings Volts	Other Windings Amps	Style	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
A	24R22U	360-0-360	120	5.0	3.0	6.3 C.T.	3.5	GGV	3⅛	3¼	3¼	2½	2¹⁵⁄₁₆	5.5
	24R24	370-0-370	275	5.0 C.T.	3.0	6.3 C.T.	7.0	AGF	4¼	3¾	4½	3	3¾	9.5
	24R06	375-0-375	150	5.0	3.0	6.3 C.T.	4.7	AGF	3⅞	3½	4⅛	2¾	3½	6.2
	24R06U	375-0-375	150	5.0	3.0	6.3 C.T.	4.7	GGV	4¼	3½	4	2¾	2⅞	6.2
	26R86	380-0-380	220	5.0	3.0	6.3 6.3 6.3	7.0 5.0 1.2	GGV	4¼	4	4¾	3	3¹⁵⁄₁₆	10.5
B	24R38	400-0-400 80V Bias Tap	175	5.0 C.T.	3.0	2.5 6.3 C.T. 6.3 C.T.	1.75 2.5 2.5	GGV	4⅛	4	3⅞	3	2¹³⁄₁₆	8.0
	24R07	400-0-400	200	5.0	3.0	6.3 C.T.	5.0	AGF	4½	3¾	4½	3	3⅜	9.2
	24R07U	400-0-400	200	5.0	3.0	6.3 C.T.	5.0	GGV	4⅝	3¾	4½	3	3⅜	9.2
	24R03	400-0-400	250	5.0	4.0	6.3 C.T.	5.0	GGV	4⅝	3⅞	4½	3	3¹⁵⁄₁₆	8.0
	22R35	400-0-400	340	5.0	6.0	6.3 C.T.	7.0	GGV	4⅝	3⅞	5¼	3	4	12.5
C	24R25	440-0-440	130	5.0	3.0	6.3 C.T.	3.5	GGV	4¼	3½	4⅛	2¾	2¹³⁄₁₆	7.0
	24R27	600-0-600	200	5.0	3.0	6.3 6.3	3.0 3.0	GGV	4⅝	3⅞	4¼	3	3¹⁵⁄₁₆	8.5
	22R58	750-0-750	315	5.0	6.0	6.3 6.3	8.0 3.0	GGV	5¹⁵⁄₁₆	4½	7⅛	3½	6½	23.0

FOR SPECIAL APPLICATIONS: PRIMARY 117V 50/60 Hz WITH LEADS

Section	TM Part No.	Application	Plate Supply Volts AC	Plate Supply MADC	Rectifier Fil. Volts	Rectifier Fil. Amps	Other Windings Volts	Other Windings Amps	Style	Termination Pri.	Termination Sec.	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
D	24R46	Bias Supply	200-170-130-0-130-170-200	200	5.0	3.0	6.3	6.0	GTV	Leads	Leads & Term.	4	3¼	3⅜	2½	2¹⁵⁄₁₆	4.9
	24R77	C.R.T.	1600	3.0	2.5/5.0/6.3	1.0	2.5/5.0/6.3	3.0	HKF	Lugs	Lugs	2⅜	3¹⁵⁄₁₆	2¹⁵⁄₁₆	2½	2	3.5
	22R40	C.R.T.	1800	2.0	2.5	1.8	2.5 or 6.3	2.2 or 6.3	GGV	Leads	Leads	3⅛	3¼	3¼	2½	½	5.0
	24R30	C.R.T.	2400	5.0	2.5	2.0	2.5	2.0	GGV	Leads	Leads	4¼	3¼	3¼	2¼	2¹⁵⁄₁₆	5.5
	24R108	CF-160 Condenser Tester	550 55	30 60	6.3	0.9	6.3	0.6	DAF	Leads	Leads	2¼	2⅝	2¹⁵⁄₁₆	1¼	2¹⁵⁄₁₆	1.4

FOR SPECIAL APPLICATIONS: PHOTOFLASH

Section	TM Part No.	Application	Primary Volts	Secondary Volts	Secondary Amps	Filament Volts	Filament Amps	Style	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
E	24R107	Photoflash	105/115/125	Charges Capacitor to 450VDC				BAV	2¹⁵⁄₁₆	2¹³⁄₁₆	2	2⅜	—	1.4
	22R115	Replaces GE 86G41	Photoflash Trigger Coil for 450V Flash Tube. Use with 24R107.					—	¾ Long ⁵⁄₁₆ Dia.			—	—	—
	22R42	Photoflash	117	1880	1.5	2.5	1.75	BAH	2½	2⅝	4	3⅜	—	2.0
	22R44	Photoflash	Discharge from 200V Capacitor	15KV Peak	—	—	—	BAH Single Hole Mtg.	1½	1⅜	2¼	—	—	0.2



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POWER TRANSFORMERS

PLATE TRANSFORMERS

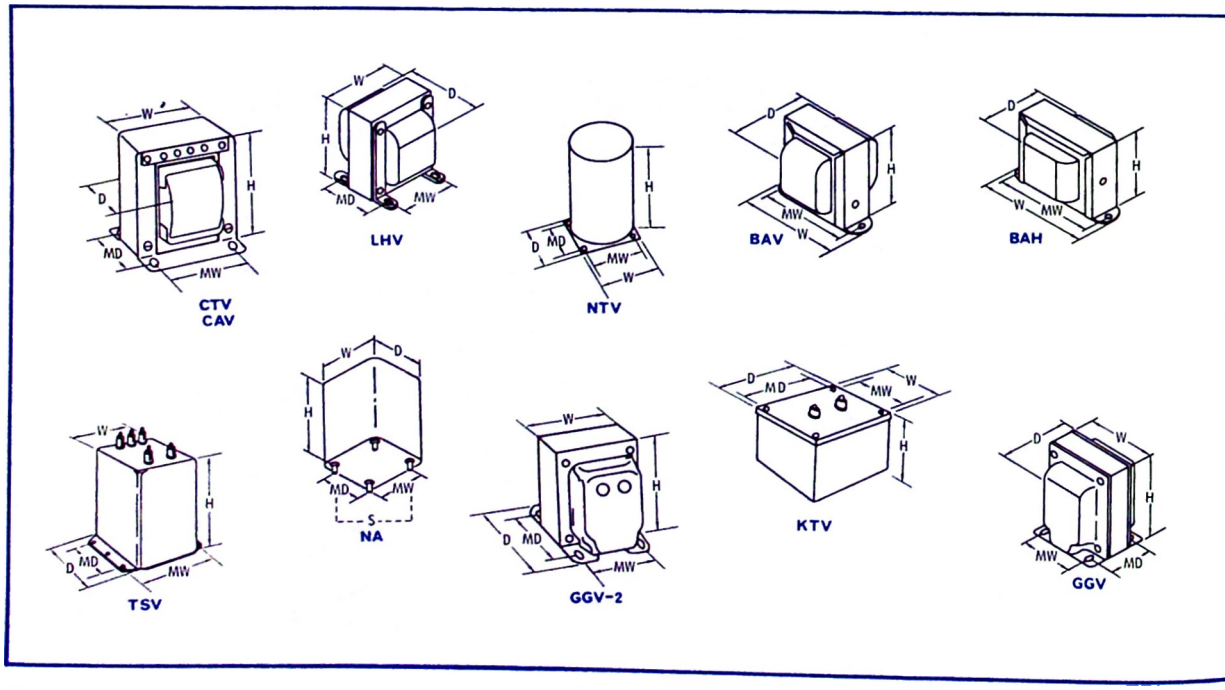
Section	TM Part No.	Notes	Secondary AC Volts	Secondary DC Volts	MADC* Reactive Input	MADC* Capacitive Input	Primary AC Volts 50/60 Hz.	Style	Termination Pri.	Termination Sec.	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
A	21P73	—	415-0-415	375	200	160	117	GGV	Leads	Leads	4	3¼	3 7/16	2½	2 1/16	5
	21P51	**	500/40-0-500	450	375	300	117	GGV	Leads	Leads	4¼	4	4½	3	3 1/16	9.8
	21P76	—	515-0-515	470	235	200	117	GGV	Leads	Leads	4 5/16	3⅝	4⅛	2¼	2 15/16	7
	21P89	—	550-0-550	500	175	140	117	GGV	Leads	Leads	3⅞	3¼	4⅛	2½	3	6.5
	27P32	—	600-0-600 or 525-0-525	545 480	550 550	440 440	105/115/ 210/220	NA —	Solder Terms.	Solder Terms.	6 13/16 —	5 1/16 —	4 5/16 —	4 1/16 —	3 5/16 —	17 —
B	21P62	**	615-520-40-0-520-615	560	250	200	117	GGV	Leads	Leads	4¼	4	5⅛	3	4 1/16	13.6
	21P80	—	665-0-665	600	250	200	117	GGV	Leads	Leads	4¼	4	4⅜	3	3 1/16	9.6
	21P65	—	728-0-728	660	250	200	117	GGV	Leads	Leads	4⅜	4	4	3	2⅞	8.5
	21P84	—	750-0-750	680	265	200	117	GGV	Leads	Leads	4¼	4	4⅛	3	3 11/16	11.5
	21P53	**	770-510-40-0-510-770	700	375	300	117	GGV	Leads	Leads	4¼	4	6⅛	3	5 1/16	18
C	21P87	—	835-0-835 or 656-0-656	760 600	220 220	175 175	117 —	GGV —	Leads —	Leads —	4⅛ —	3⅜ —	4½ —	3 —	3⅛ —	10 —
	21P86	—	920-0-920	835	250	200	117	GGV	Leads	Leads	4¼	4	4⅜	3	3 11/16	12
	25P67	—	950-750-0-750-950	860	360	285	105/115/210/ 220/230	NTV	Solder Terms.	Solder Terms.	7	5¼	5¼	4⅜	4⅛	22
	21P93	—	1075-0-1075 and 500-0-500	975 450	95 125	— —	117 —	GGV —	Leads —	Leads —	4⅛ —	3⅜ —	4¼ —	3 —	3⅛ —	10 —
	21P88	—	1200-0-1200	1090	225	180	117	GGV-2†	Leads	Leads	4¼	4	5⅛	3	4 1/16	13
D	21P68	—	1215-0-1215	1100	500	400	115/230	GGV-2†	Leads	Leads	6½	5½	5¼	4¼	3¼	25
	21P83	**	1440-0-1440	1300	250	200	115/230	GGV-2†	Leads	Leads	5⅞	4½	4⅝	3½	3⅛	14.8
	21P82	—	1475-0-1475	1340	250	190	117	GGV-2	Leads	Leads	5¼	4½	6⅛	3½	5	16.5
	21P72	**	1650-0-1650	1500	500	400	115/230	GGV-2†	Leads	Leads	6½	5½	6¼	4¼	4¼	29
	24P78	•	25000 Open Circ.	—	—	—	117	CTV	Lugs	Lugs	14	6⅛	8⅛	3½	4½	42

*These are maximum continuous ratings in normal applications.

**These units may be operated with ungrounded center tap for full wave bridge applications. Secondary center tap must be grounded on others.

†GGV-2 is same as GGV except secondary leads exit at top of transformer shield.

•This high voltage transformer is particularly designed for dielectric air filtering, hi-pot testing, H.V. displays etc. It is suitable for use in half wave power supplies and has a maximum short circuited secondary current of 40MA. Accomplished by a closed core double magnetic circuit. Voltage must be derated in proportion to current drawn.



THORDARSON

FILAMENT TRANSFORMERS

The following filament transformers are listed in order of increasing secondary voltage. Units may be used for applications where a low voltage transformer is required. The rated load current is specified as AC RMS amps. THORDARSON has additional transformers for low voltage and related applications listed in the LOW VOLTAGE TRANSFORMER INDEX starting on page 32.

FILAMENT TRANSFORMERS—SINGLE SECONDARY

Section	TM Part No.	Secondary Volts	Secondary Amps	Primary Volts	RMS Test Volts	Style	Termination Primary	Termination Secondary	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
A	21F191	2.5 C.T.	0.3	117	1500	BAH	Leads	Leads	1¼	2⅛	1 5/16	1¼	—	0.3
	21F192	2.5	1.0	117	1500	BAH	Leads	Leads	1⅜	2⅛	1⅜	2	—	0.4
	21F34	2.5	1.5	117	1500	BAH	Leads	Leads	1⅜	2⅛	1½	2⅛	—	0.7
	21F120	2.5 C.T.	3.0	117	1500	BAH	Leads	Leads	1⅜	2⅛	1¾	2⅛	—	0.6
	21F166	2.5 C.T.	3.0	115/230	1500	BAH	Leads	Leads	1⅜	2⅛	1¾	2⅛	—	0.6
B	21F31	2.5 C.T.	5.0	117	7500	BAV	Leads	Leads	2 1/16	3 5/16	2¾	2 13/16	—	1.5
	21F00	2.5 C.T.	5.0	117	2500	BAV	Leads	Leads	2⅛	2⅛	1¾	2⅛	—	1.0
	21F92	2.5 C.T.	6.0	117	1500	BAH	Leads	Leads	2	3 5/16	1⅞	2 13/16	—	1.0
	21F166	2.5 C.T.	6.0	115/230	1500	BAH	Leads	Leads	2	3 5/16	2	2 13/16	—	1.0
	21F93	2.5 C.T.	10.0	117	1500	BAH	Leads	Leads	2 5/16	3¼	2½	3½	—	1.5
C	21F01	2.5 C.T.	10.0	117	2500	BAV	Leads	Leads	2 1/16	3 5/16	2	2 13/16	—	1.5
	21F32	2.5 C.T.	10.0	107/117	2500	GGV	Leads	Leads	3⅛	2⅝	2⅝	2	1¾	2.5
	21F103	2.5 C.T.	10.0	107/117	7500	BAV	Leads	Leads	3⅛	3⅛	2½	3½	—	2.5
	21F02	2.5 C.T.	10.0	117	10000	CAV	Leads	Leads	3⅛	2½	2¼	2	1¾	2.75
	21F58	2.5 C.T.	10.0	117	10000	LHV	Lugs	Lugs	3½	2⅞	2½	2¼	1⅞	2.5
D	21F36	5.0 C.T.	3.0	117	5000	GGV	Leads	Leads	3⅛	2⅝	2½	2	1½	2.5
	21F84	5.0 C.T.	3.0	117	1500	BAH	Leads	Leads	2	3 5/16	2	2 1/16	—	1.3
	21F03	5.0 C.T.	3.0	117	2500	BAV	Leads	Leads	2⅛	2⅛	1¾	2⅛	—	1.0
	21F105	5.0 C.T.	6.0	107/117	2000	BAV	Leads	Leads	2¼	3⅛	2¼	2 1/16	—	2.0
	21F37	5.0 C.T.	6.0	117	2500	LHV	Lugs	Lugs	3⅛	2½	2½	2	2	2.25
E	21F183	5.0 C.T.	6.0	107/117	2500	GGV	Leads	Leads	3⅛	2½	2⅛	2	1 13/16	2.25
	21F04	5.0 C.T.	8.0	117	2500	CAV	Leads	Leads	3⅛	2½	2¼	2	1¾	2.5
	21F13	5.0 C.T.	10.0	117	2500	CAV	Leads	Leads	3⅛	2⅞	2½	2	2⅛	3.0
	26F66	5.0 C.T.	15.0	117	2500	CAV	Leads	Leads	3	2½	2⅞	2	2⅛	3.5
	21F20	5.0 C.T.	15.0	117	10000	CAV	Leads	Leads	4⅛	3¼	3¼	3	2½	6.75
F	21F07	5.0 C.T.	21.0	117	2500	CAV	Leads	Leads	3⅞	3 5/16	3	2¼	2½	5.0
	21F38	5.0 C.T.	22.0	107/117	10000	KTV	Terms.	Terms.	5⅛	4⅝	8½	2¾	6	13.5
	21F185	5.0 C.T.	30.0	117	2500	GGV	Leads	Leads	4 5/16	3¼	4	3	2 1/16	8.0
	21F165	†5.0 C.T.	30.0	117	2500	GGV	Leads	Leads	4⅛	3¼	4	3	2⅞	7.5
	21F33	5.0 C.T.	30.0	110/115/120	2500	GTV	Terms.	Terms.	3⅞	3 5/16	4⅛	2½	2 1/16	6.2
G	21F69	6.3/5.0 Tap†	2.0	117	5000	BAH	Leads	Leads	2	3 5/16	2	2 1/16	—	1.25
	26F73	6.3 C.T.	0.3	117	1500	BAH	Leads	Leads	1¼	2⅛	1⅛	1¼	—	0.3
	21F21	6.3	0.6	117	1500	BAH	Leads	Leads	1⅜	2⅛	1¼	2	—	0.75
	21F162	6.3 C.T.	0.6	117	1500	BAH	Leads	Leads	1⅜	2⅛	1½	2	—	0.4
	21F156	6.3 C.T.	0.6	117	1500	BAH	Leads	Leads	1⅜	2⅛	1⅜	2	—	0.4
H	21F167	6.3	0.6	115/230	1500	BAH	Leads	Leads	1⅜	2⅛	1⅜	2	—	0.6
	21F200	6.3 C.T.	0.6	230	1500	BAH	Leads	Leads	1⅜	2⅛	1½	2	—	0.4
	21F143	6.3 C.T.	1.0	117	1500	BAH	Leads	Leads	1⅜	2⅛	1½	2⅛	—	0.6
	21F08	6.3 C.T.	1.2	117	2500	BAV	Leads	Leads	2	2⅛	1½	2	—	0.7
	21F09	6.3 C.T.	1.2	117	2500	BAH	Leads	Leads	1⅜	2⅛	1½	2⅛	—	0.7
I	21F212	*6.3	1.2	117	2500	BAH	*Leads	Leads	1⅜	2⅛	1½	2⅛	—	0.7
	26F60	6.3	1.2	117	7000	BAH	Leads	Leads	2	3¼	2	2 1/16	—	1.25
	21F168	6.3 C.T.	1.2	115/230	2500	BAH	Leads	Leads	1⅜	2 1/16	1⅜	2⅛	—	0.5
	26F65	6.3	1.2	6.3	5000	BAH	Leads	Leads	2	3¼	2	2 1/16	—	1.25
	‡26F70	‡6.3	1.2	6.3	5000	BAH	Leads	Leads	2	3¼	2	2 1/16	—	1.25

†Has Faraday Shield. ‡Special Filament Isolating Transformer for Dampers. *Same as 21F09 Except No Secondary C.T.

Listing continued on next page

THORDARSON has additional standard and stocked **FILAMENT TRANSFORMERS** which are not listed in this catalog. Contact factory for additional information.

THORDARSON

FILAMENT TRANSFORMERS

FILAMENT TRANSFORMERS—SINGLE SECONDARY (cont'd)

Section	TM Part No.	Secondary Volts	Secondary Amps	Primary Volts	RMS Test Volts	Style	Termination Primary	Termination Secondary	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
A	21F184†	6.3 C.T.	3.0	117	2500	LHV	Lugs	Lugs	3 1/8	2 1/2	2 1/2	2	1 3/4	2.0
	21F10	6.3 C.T.	3.0	117	2500	BAH	Leads	Leads	2	3 1/4	2 1/8	2 13/16	—	1.25
	21F109	6.3	3.0	107/117	7000	BAV	Leads	Leads	3 1/2	3 9/16	2 1/8	3 1/8	—	2.0
	21F169	6.3 C.T.	3.0	115/230	2500	BAH	Leads	Leads	1 15/16	3 1/16	2	2 13/16	—	1.3
	21F71	6.3	4.0	117	1500	BAH	Leads	Leads	2	3 1/16	2	2 13/16	—	1.25
B	21F70	6.3	4.0	117	5000	BAH	Leads	Leads	2 9/16	4	2 1/4	3 9/16	—	2.1
	21F203	6.3 C.T.	4.0	117	1500	BAH	Leads	Leads	2 1/8	3 1/4	2 1/4	3 1/8	—	1.6
	21F41	6.3 C.T.	4.0	107/117	2500	GGV	Leads	Leads	3 1/8	2 1/8	2 1/8	2	1 15/16	2.75
	21F204	6.3 C.T.	5.0	117	1500	BAH	Leads	Leads	2 1/8	3 1/4	2 1/8	3 1/8	—	1.8
	21F148	6.3 C.T.	6.0	117	2000	BAV	Leads	Leads	3 1/8	3 9/16	2 1/2	3 1/8	—	2.0
C	21F58	6.3 C.T.	6.0	117	2500	LHV	Lugs	Lugs	3 1/8	2 1/8	2 1/2	2	2	2.75
	21F11	6.3 C.T.	6.0	117	1500	CAV	Leads	Leads	3 1/8	2 1/2	2 1/2	2	1 3/4	2.5
	21F42	6.3 C.T.	6.0	107/117	2500	GGV	Leads	Leads	3 1/8	3	3 1/8	2	2 1/4	3.5
	21F72	6.3 C.T.	6.0	107/117	2000	BAH	Leads	Leads	2 1/4	3 1/8	2 1/2	3 1/8	—	2.0
	21F170	6.3 C.T.	6.0	115/230	1500	BAH	Leads	Leads	2 15/32	4	2 1/4	3 9/16	—	2.3
D	21F96	6.3 C.T.	8.0	117	1500	BAH	Leads	Leads	2 1/8	4	2 1/2	3 9/16	—	2.5
	21F74	6.3 C.T.	10.0	117	1500	GGV	Leads	Leads	3 1/2	3	3 1/8	2 1/4	2	3.8
	21F12	6.3 C.T.	10.0	117	2500	CAV	Leads	Leads	3 1/8	2 1/2	2 1/2	2	2	3.25
	21F43	6.3 C.T.	10.0	107/117	2500	LAV	Leads	Leads	3 1/2	2 1/8	2 1/4	2 1/4	2 1/16	3.5
	21F109	*6.0 C.T./6.5 C.T./ 7.0 C.T.	13	117	2000	LHV	Lugs	Cu. Tabs	3 1/8	2 13/16	3 1/8	2 1/4	2 13/16	4.5
E	21F76	6.3 C.T.	15.0	117	10000	LAV	Leads	Leads	4 1/4	3 1/2	3 9/16	2 1/4	2 13/16	7.5
	21F77	6.3 C.T.	20.0	117	2500	GGV	Leads	Leads	3 1/8	3 9/32	4 1/4	2 1/2	2 13/16	7.0
	21F25	6.3 C.T.	20.0	107/117	2500	LAV	Leads	Leads	4 1/8	3 13/16	3 1/4	3	2 1/8	6.7
	21F79	*6.3 C.T./7.5 C.T.	25.0	117	3000	LHV	Leads	Lugs	4 1/8	3 13/16	3 9/16	3	3 1/16	7.5
	21F15	7.5 C.T.	4.0	117	2500	BAV	Leads	Leads	2 1/4	3 1/8	2 1/8	2 13/16	—	2.0
F	21F45	7.5 C.T.	4.0	117	2500	LHV	Lugs	Lugs	3 1/8	2 1/8	2 1/4	2	2 1/8	2.7
	21F110	7.5 C.T.	5.0	107/117	2500	GGV	Leads	Leads	3 1/8	3	3	2 1/4	1 7/8	3.4
	21F62	7.5 C.T.	8.0	117	2500	LAV	Leads	Leads	3 1/8	3 1/8	2 1/8	2 1/2	2 1/8	4.7
	21F16	7.5 C.T.	8.0	117	2500	CAV	Leads	Leads	3 1/8	2 1/4	2 1/2	2	2	3.25
	21F111	7.5 C.T.	21.0	107/117	2500	GGV	Leads	Leads	4 1/2	3 1/4	4	2 1/4	3	8.0
G	25F18	7.5 C.T.	25	115/230	2500	TTV	Terms	Terms	5 5/16	4 5/16	5 1/4	2 1/2	4 1/4	12.0
	21F205	10.0 C.T.	1.0	117	1500	BAH	Leads	Leads	2	3 1/4	1 1/8	2 13/16	—	0.9
	21F206	10.0 C.T.	2.0	117	1500	BAH	Leads	Leads	2	3 1/4	2	2 13/16	—	1.3
	26F71	10.0 C.T.	3.0	117	1500	BAH	Leads	Leads	2 1/8	3 1/4	2 1/4	3 1/8	—	1.6
	21F171	10.0 C.T.	3.0	117	2000	BAH	Leads	Leads	2 9/32	3 1/4	2 1/8	3 1/8	—	1.7
H	21F207	10.0 C.T.	4.0	117	1500	BAH	Leads	Leads	2 1/8	4	2 1/8	3 9/16	—	2.3
	21F61	10.0 C.T.	4.0	117	2500	LHV	Lugs	Lugs	3 1/16	2 1/8	2 1/8	2 1/4	2 1/8	3.25
	21F172	10.0 C.T.	5.0	117	2000	LAV	Leads	Leads	3	2 1/2	2 1/8	2 1/16	2	2.5
	21F18	10.0 C.T.	5.0	117	2500	CAV	Leads	Leads	3 1/8	2 5/16	2 1/2	2	1 3/4	2.25
	21F47	10.0 C.T.	5.0	107/117	2500	GGV	Leads	Leads	3 1/8	3 1/4	3 1/8	2 1/2	1 15/16	4.0
I	21F208	10.0 C.T.	6.0	117	1500	LAV	Leads	Leads	3 1/8	2 1/2	2 3/4	2	2 1/16	3.1
	21F209	10.0 C.T.	8.0	117	1500	LAV	Leads	Leads	3 1/16	2 13/16	3	2 1/4	2 1/2	4.1
	21F28	10.0 C.T.	8.0	117	2500	CAV	Leads	Leads	3 1/8	3 1/8	3 1/8	2 1/2	2 1/8	4.9
	21F29	10.0 C.T.	8.0	107/117	2500	GGV	Leads	Leads	3 1/8	3 1/4	3 1/8	2 1/2	2 1/16	5.2
	21F173	10.0 C.T.	10.0	117	2000	LAV	Leads	Leads	4 1/8	3 1/2	3 1/4	2 1/4	2 1/16	7.5
J	21F112	10.0 C.T.	10.0	117	2000	GGV	Leads	Leads	3 1/8	3 1/4	3 1/8	2 1/2	2 1/16	5.2
	21F68	*10.0 C.T./ 11.0 C.T./ 12.0 C.T.	11.0	115	3000	LAV	Leads	Leads	4 1/8	3 1/2	3 1/16	2 1/4	2 9/16	6.5
	21F19	*10.0 C.T. or 11.0 C.T.	12.0 10.0	117	2500	CAV	Leads	Leads	3 1/8	3 1/16	2 1/8	2 1/2	2 1/4	6.0
	21F113	11.0 C.T.	10.0	107/117	2500	GGV	Leads	Leads	4 1/4	4	3 1/2	3	2 1/16	7.7
	‡26F70	‡12.6 C.T.	1.0	6.3	5000	BAH	Leads	Leads	2	3 1/4	2	2 13/16	—	1.25
K	21F174	12.6 C.T.	1.0	117	1500	BAH	Leads	Leads	1 15/16	3 1/16	1 1/4	2 13/16	—	0.9
	26F72	12.6 C.T.	1.0	117	1500	BAH	Leads	Leads	2	3 1/4	1 1/4	2 13/16	—	0.9
	21F149	12.6 C.T.	1.5	117	1500	BAH	Leads	Leads	2	3 1/4	2	2 13/16	—	1.0

*Secondary Voltage varied by means of Primary Taps. ‡Special Filament Isolating Transformer for Dampers. †Has Faraday Shield.

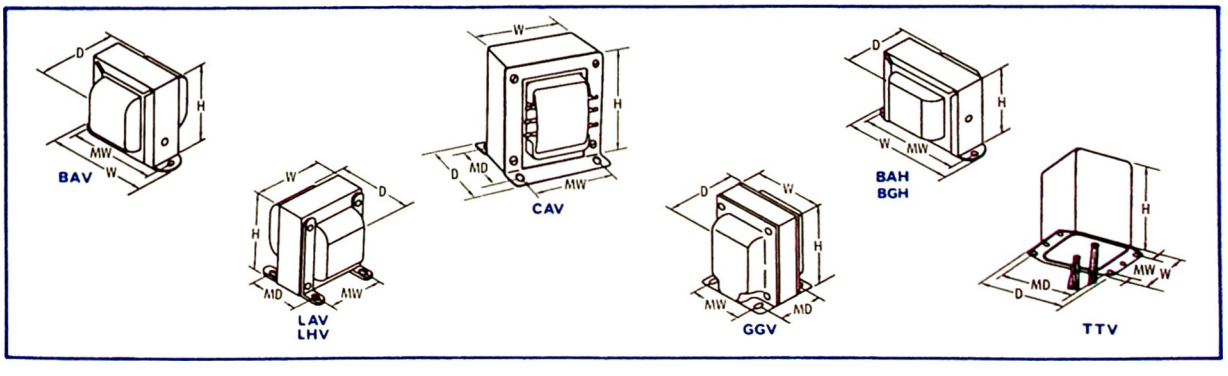
Listing continued on next page

FILAMENT TRANSFORMERS

FILAMENT TRANSFORMERS—SINGLE SECONDARY (cont'd)

Section	TM Part No.	Secondary Volts	Secondary Amps	Primary Volts	RMS Test Volts	Style	Termination Primary	Termination Secondary	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
A	21F175	12.6 C.T.	1.5	115/230	1500	BAH	Leads	Leads	2	3¼	2	2 13/16	—	1.0
	26F87	12.6 C.T.	2.0	117	1500	BAH	Leads	Leads	2	3¼	2	2 13/16	—	1.1
	21F176	12.6 C.T.	2.0	115/230	1500	BAH	Leads	Leads	2	3¼	2	2 13/16	—	1.1
	21F201	12.6 C.T.	2.0	230	1500	BAH	Leads	Leads	2	3¼	2⅛	2 13/16	—	1.75
	21F177	12.6 C.T.	2.5	115/230	1500	BAH	Leads	Leads	2 5/16	3 11/16	2	3⅛	—	1.5
B	21F81	12.6 C.T.	2.5	117	1500	BAH	Leads	Leads	2¼	3⅝	2⅛	3⅛	—	1.6
	21F150	12.6 C.T.	3.0	117	1500	BAH	Leads	Leads	2 5/16	3 11/16	2¼	3⅛	—	1.2
	21F60	12.6 C.T.	3.0	117	2000	LAV	Leads	Leads	3 1/16	2 5/16	2⅜	2	2	3.5
	21F193	12.6 C.T.	4.0	117	1500	BAH	Leads	Leads	2¾	4	2⅛	3 1/16	—	2.5
	21F202	12.6 C.T.	4.0	230	2500	BAH	Leads	Leads	2⅜	4	2⅜	3 1/16	—	2.5
C	21F194	12.6 C.T.	6.0	117	1500	GGV	Leads	Leads	3½	2 13/16	3⅜	2⅛	2¼	3.5
	21F196	12.6 C.T.	8.0	117	1500	GGV	Leads	Leads	3⅜	3¼	3⅜	2 5/16	2½	4.5
	21F198	12.6 C.T.	10.0	117	1500	GGV	Leads	Leads	4¼	3 7/16	3⅜	2 11/16	2¼	5.5
	21F84	24.0 C.T.	1.0	117	1500	BAH	Leads	Leads	2	3¼	2	2 13/16	—	1.5
	26F88	24.0	1.0	117	2500	BAH	Leads	Leads	2	3¼	2	2 13/16	—	1.5
D	21F181	24.0 C.T.	1.0	115/230	1500	BAH	Leads	Leads	2	3¼	2	2 13/16	—	1.5
	21F163	24.0 C.T.	10.0	117	1500	CAV	Leads	Leads	4 5/16	3¼	3¼	3	2¾	7.5
	21F100	*24.5 to 29.0 C.T.	0.04	117	1500	BAH	Leads	Leads	1¼	2⅛	1⅜	1¼	—	0.25
	21F101	*24.5 to 29.0 C.T.	0.25	117	1500	BAH	Leads	Leads	1⅜	2 13/16	1⅜	—	—	0.6
	21F188	*24.5 to 29.0 C.T.	0.04	117	2500	BAH	Leads	Leads	1¼	2⅛	1⅜	1¼	—	0.25
E	21F189	*24.5 to 29.0 C.T.	0.25	117	2500	BAH	Leads	Leads	1⅜	2 13/16	1⅜	2⅛	—	0.6
	21F51	25.2	1.0	117	1500	BAH	Leads	Leads	2	3¼	2⅛	2 13/16	—	1.5
	21F159	25.2	1.0	230	1500	BAH	Leads	Leads	2	3¼	2⅛	2 13/16	—	1.5
	21F142	25.2 C.T.	1.0	117	1500	BAH	Leads	Leads	2	3¼	2⅛	2 13/16	—	1.5
	21F186	25.2 C.T.	1.0	†117	1500	BGH	Leads	Leads	2	3¼	2⅛	2 13/16	—	1.5
F	21F83	25.2 C.T.	2.0	117	1500	BAH	Leads	Leads	2 5/16	4	2¼	3 1/16	—	2.2
	21F180	25.2 C.T.	2.0	115/230	1500	BAH	Leads	Leads	2 5/16	4	2¼	3 1/16	—	2.2
	21F114	25.2 C.T.	3.0	117	1500	BAH	Leads	Leads	2 5/16	4	2¼	3 1/16	—	2.2
	21F197	25.2 C.T.	5.0	117	1500	GGV	Leads	Leads	4¼	3 7/16	3⅜	2¼	2 11/16	5.5
	21F199	25.2 C.T.	7.5	117	1500	GGV	Leads	Leads	4¼	3 7/16	4¼	2¼	3 1/16	7.5
G	21F189	25.2 C.T.	10.0	117	1500	GGV	Leads	Leads	4 5/16	3¼	5	3	3 11/16	10.0
	21F27	26.5 C.T.	0.6	117	3000	BAH	Leads	Leads	2	3¼	2⅛	2 13/16	—	1.6
	21F82	26.8 C.T.	1.0	117	1500	BAH	Leads	Leads	2	3¼	2	2 13/16	—	1.6
H	21F178	26.8 C.T.	1.0	115/230	1500	BAH	Leads	Leads	2	3¼	2⅛	2 13/16	—	1.7
	21F179	26.8 C.T.	1.7	115/230	1500	BAH	Leads	Leads	2 5/16	4	2¼	3 1/16	—	2.5
	23V270	26.8 C.T.	1.7	115	1500	BAH	Leads	Leads	2⅜	4	2¼	3 1/16	—	3.5
	21F190	30.0	3.0	117	1500	GGV	Leads	Leads	3½	2 13/16	3⅜	2¼	2 1/16	4.2
	21F182	35.0	1.5	115/230	1500	BAH	Leads	Leads	2⅜	4	2¼	3 1/16	—	2.2
	21F187	*45 to 54 C.T.	1.0	117	2500	BAH	Leads	Leads	2⅜	4	2⅜	3 1/16	—	2.3

*Secondary Voltage Varied by Means of Primary Taps. †Fused Primary.



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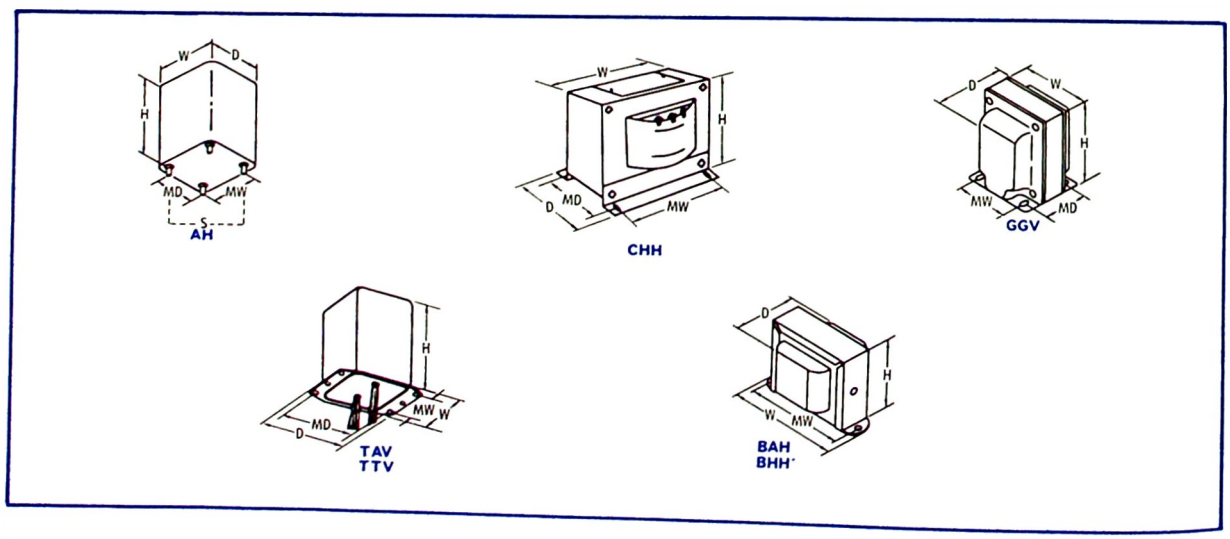
FILAMENT TRANSFORMERS

FILAMENT TRANSFORMERS: WITH MULTIPLE SECONDARIES

Section	TM Part No.	Secondary Volts	Secondary Amps	RMS Test Volts	Primary Volts 50/60 Hz.	Style	Termination Pri.	Termination Sec.	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
A	21F66	5.0 C.T. 6.3 C.T.	6.0 6.0	1765 1765	107/117	GGV	Leads	Leads	3⅛	3¼	3⅛	2½	2 1/16	4.8
	21F88	6.3 6.3 6.3 6.3 C.T.	1.75 1.75 1.75 1.75	1500 1500 1500 1500	115	GGV	Leads	Leads	3⅛	2⅝	3	2	2¼	3.5
	21F87	6.3 C.T. 6.3 C.T.	3.0 3.0	1500 1500	117	GGV	Leads	Leads	3 1/32	2 11/32	2⅝	2	1⅛	2.5
	21F24	6.3 6.3 6.3 6.3	3.0 3.0 3.0 3.0	2500 2500 2500 2500	117	GGV	Leads	Leads	3⅛	3¼	3⅜	2½	2¼	5.0
	21F119	6.3 C.T. 6.3 C.T.	6.0 6.0	2500 2500	117	GGV	Leads	Leads	3⅛	3⅛	3½	2½	2 3/16	4.8
B	21F98	24.0 C.T. or 12.0	1.0 2.0	1500	117	BAH	Leads	Leads	2 5/16	3¼	2⅛	3⅛	—	1.5
	21F97	24.0 C.T. or 12.0	2.0 4.0	1500	117	BAH	Leads	Leads	2 11/16	4	2⅝	3 5/16	—	2.5
	21F90	12.6 12.6 C.T.	2.5 2.5	1500 1500	115	GGV	Leads	Leads	3½	3	3⅛	2¼	2	3.7
	21F52	12.6 12.6	3.5 3.5	2500	117	GGV	Leads	Leads	3½	2⅝	3⅜	2¼	2⅝	5.0
	21F91	12.6 C.T. 12.6 C.T.	5.0 5.0	2000 2000	105/115/125	GGV	Leads	Leads	3⅛	3 1/32	3½	2½	2⅝	6.0
	21F89	18.0 18.0	1.3 1.3	1500 1500	117	BAH	Leads	Leads	2 11/16	4	2⅝	3 5/16	—	2.5

FILAMENT TRANSFORMERS: MULTI-TAPPED FOR TUBE CHECKER

Section	TM Part No.	Secondary Volts	Secondary Amps	RMS Test Volts	Primary Volts 50/60 Hz.	Style	Termination Pri.	Termination Sec.	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
C	21F30	117/107/85 70 50 35 30/25/20/12 7.5/7/6.3/5 4/3.3/2.5/2 1.5/1.4/1.1	0.20 0.30 0.50 0.60 0.80 3.0 3.0 3.0	500	125/115/105	BHH	Leads	Leads & Lugs	2⅝	4	2½	3 5/16	—	2.5



THORDARSON

INDUCTORS

THORDARSON inductors provide total coverage of power supply and special application requirements. Smoothing, swinging, high current, toroidal, and alignaire variable inductors are listed in order of increasing current ratings. The rated inductance in henries of smoothing chokes can be varied slightly if the rated current is changed.

FILTER CHOKES: SMOOTHING

Section	TM Part No.	MADC	Nominal Inductance Henries	DC Res. Ohms	RMS Test Volts	Style	Termination	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
A	20C50	5	350	5500	2000	BAH	Leads	2	3¼	2	2 11/16	—	1.5
	26C40	10	1.5	95	2500	BAH	Leads	1¼	2⅛	1⅛	1¾	—	0.5
	20C102	15	2.0	70	1500	BAH	Leads	1 3/16	2 5/16	1¼	1¾	—	0.4
	20C43	15	20	900	1500	BAH	Leads	1⅝	2⅞	1½	2⅜	—	0.75
	20C51	15	35	1850	1200	BAH	Leads	1⅜	2⅜	1¼	2	—	0.5
B	20C04	15	50	3500	1500	BAH	Leads	1⅝	2⅜	1½	2	—	0.5
	20C05	20	15	1000	1000	BAH	Leads	1⅝	2 11/16	1¾	2⅜	—	0.6
	20C185	30	12	400	2000	BAH	Leads	1⅝	2⅜	1 5/16	2	—	0.5
	20C35	40	8.0	250	1500	BAH	Leads	1⅝	2⅞	1½	2⅜	—	0.75
	20C52	40	8.0	450	1500	BAH	Leads	1⅝	2⅜	1¼	2	—	0.5
C	26C49	40	15	475	2500	TTV	Term.	2⅜	2¼	2 11/16	1½	2⅜	1.5
	20C82	50	3.5	300	2500	BAH	Leads	1⅝	2⅞	1½	2⅜	—	0.75
	20C47	50	4.5	300	1500	BAH	Leads	1⅝	2⅜	1⅜	2	—	0.5
	26C42	50	4.5	200	1500	BAH	Leads	1⅝	2⅞	1⅜	2⅜	—	0.8
	20C58	55	7.0	200	1600	BAH	Leads	1⅝	2⅞	1⅝	2⅜	—	0.75
D	20C84	50	7.0	550	1500	BAH	Leads	1½	2½	1⅜	2	—	0.5
	20C81	50	8.5	400	1500	BAH	Leads	1⅝	2⅞	1½	2⅜	—	0.75
	20C66	50	9.0	500	2500	BAH	Leads	1⅝	2⅞	1½	2⅜	—	0.75
	26C87	50	16	580	1500	BAH	Leads	2	3¼	2⅛	2 11/16	—	1.2
	26C51	55	15	420	2500	TTV	Term.	2⅜	2¼	2 11/16	1½	2⅜	2.0
E	20C85	65	13	500	1500	BAH	Leads	2	3¼	1¾	2 11/16	—	1.2
	27C27	70	2.0	165	2500	AH	Term.	1¾	1 5/16	1 5/16	1¼	—	0.5
	20C186	75	8.0	290	1500	CHH	Lugs	2 5/16	2 5/16	1¾	1 5/16	1½	1.0
	26C86	75	15	400	1500	BAH	Leads	2¼	3¼	2⅜	3⅛	—	1.5
	20C53	80	12	375	2000	BAH	Leads	2	3¼	2⅛	2 13/16	—	1.5
F	20C71	80	16	360	1500	GGV	Leads	3 1/16	2⅜	2⅜	2	1 11/16	2.5
	20C48	80	8.0	250	2000	BAH	Leads	2	3¼	2⅛	2 13/16	—	1.5
	25C53	85	15	285	2500	TTV	Term.	3 1/16	3	2½	1¾	2 11/16	2.75
	20C06	90	10	270	1000	BAH	Leads	2	3 1/16	2	2 13/16	—	1.3
	20C07	90	4.0	100	1500	BAH	Leads	2	3 1/16	1¾	2 13/16	—	1.0
G	20C87	100	5.0	300	1500	TAV	Leads	2¼	2¼	2 11/16	2⅜	1½	1.5
	20C08	110	6.0	160	1500	BAH	Leads	2 5/16	3¼	2	3⅛	—	1.5
	26C85	110	10.5	225	3000	BAH	Leads	2⅜	4	2½	3 5/16	—	1.75
	20C09	125	9.0	250	1000	BAH	Leads	2 5/16	3¼	2	3⅛	—	1.5
	26C83	125	7.0	300	1500	BAH	Leads	2	3¼	2⅛	2 13/16	—	1.5
H	26C88	130	2.5	100	2000	BAH	Leads	2	3¼	1¾	2 13/16	—	1.2
	20C64	130	4.0	100	1600	BAH	Leads	2¼	3¼	2⅜	3⅛	—	1.5
	26C89	150	2.3	60	1500	BAH	Leads	2	3¼	1¾	2 11/16	—	1.0
	20C184	150	3	90	2000	BAH	Leads	2 5/16	3 11/16	2	3⅛	—	1.5
	20C68	150	7.0	200	1500	BAH	Leads	2⅜	4	2¼	3 5/16	—	2.2
I	20C54	150	8	145	1700	GGV	Leads	3⅛	2 5/16	2¼	2	1 11/16	2.2
	25C33	150	12	150	2500	TAV	Leads	3⅜	3¼	4	2¼	3⅛	5.5
	25C57	150	12	150	2500	TTV	Term.	3⅜	3¼	4	2¼	3⅛	5.5
	20C10	160	6.0	165	1500	GGV	Leads	2¼	2⅜	2⅛	1¾	1¾	2.0
	20C11	160	6.0	165	1500	BAH	Leads	2 5/16	3¼	2⅛	3⅛	—	1.75

Listing continued on next page

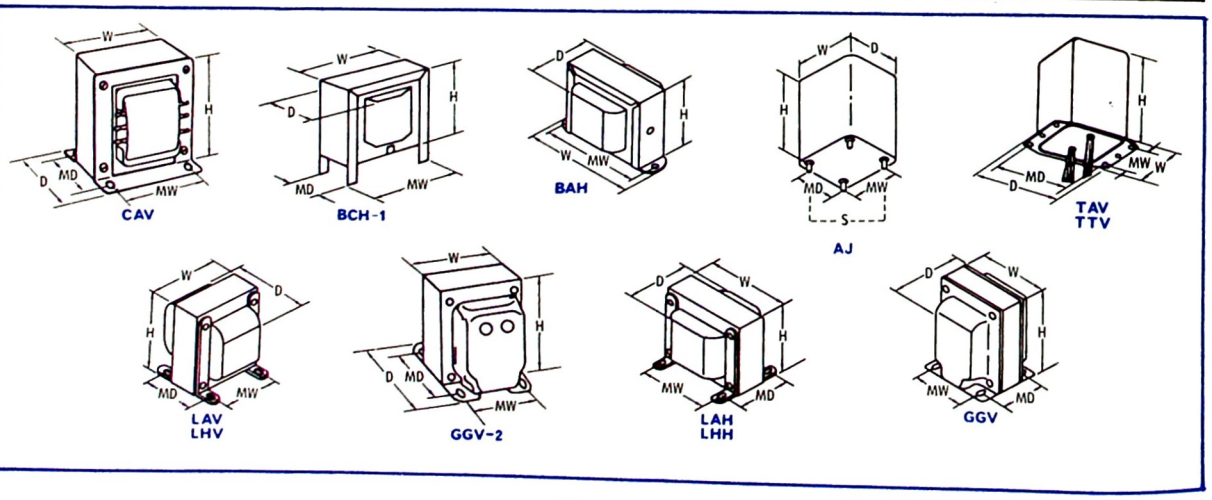
THORDARSON has additional standard and stocked **CHOKES/INDUCTORS** which are not listed in this catalog. Contact factory for additional information.

THORDARSON

INDUCTORS

FILTER CHOKES: SMOOTHING (Cont'd)

Section	TM Part No.	MADC	Nominal Inductance Henries	DC Res. Ohms	RMS Test Volts	Style	Termination	Outline Dimensions H	W	D	Mounting Dimensions MW	MD	Wt. Lbs.
A	20C12	160	3.0	75	1500	BAH	Leads	2 5/16	3 1/4	2 1/4	3 1/8	—	1.75
	20C41	200	1.5	90	1600	BAH	Leads	1 3/4	2 1/8	1 3/4	2 1/4	—	0.75
	20C43	200	2.0	50	1500	BAH	Leads	2	3 1/4	1 3/4	2 13/16	—	1.0
	20C94	200	2.0	60	1500	BAH	Leads	2 1/4	3 1/4	2 1/4	3 1/4	—	1.5
	20C84	200	4.5	80	3000	GGV	Leads	3 1/4	3	3 1/4	2 1/4	2	3.5
B	20C13	200	6.0	150	1500	GGV	Leads	3 1/32	2 21/32	2 1/4	2	1 7/8	2.5
	20C14	200	6.0	150	1500	BAH	Leads	2 3/4	4	2 1/4	3 5/16	—	2.3
	25C34	200	8.0	85	2500	TAV	Leads	4 1/4	3 3/4	4 7/16	3 1/8	2 1/4	7.0
	20C96	200	8.5	120	3000	LAV	Leads	3 3/4	3 3/8	3	2 1/2	2 1/4	4.5
	20C45	200	10	140	3000	GGV	Leads	3 1/2	2 3/4	4 1/4	2 3/4	2 1/4	4.9
C	25C59	200	12	140	2500	TTV	Term.	4 1/4	3 3/4	4 7/16	3 1/8	2 1/4	7.0
	20C78	240	1.0	50	1500	BAH	Leads	1 3/4	2 1/8	1 1/2	2 1/8	—	0.75
	20C15	250	4.0	100	1500	GGV	Leads	3 1/8	2 11/16	2 1/8	2	1 7/8	3.0
	20C16	250	4.0	100	1500	BAH	Leads	2 1/8	4	2 1/4	3 5/16	—	2.3
	20C90	250	4.0	60	3000	GGV	Leads	3 1/4	3	3 1/2	2 1/4	2 1/8	4.3
D	20C80	300	0.5	30	1500	BAH	Leads	1 3/4	2 1/8	1 1/2	2	—	0.5
	20C44	300	1.0	60	1500	BAH	Leads	2	3 1/4	2 1/8	2 13/16	—	1.5
	20C77	290	0.7	30	1500	BAH	Leads	1 3/4	2 13/16	1 3/4	2 1/8	—	0.75
	20C83	300	1.0	45	1500	BAH	Leads	2 1/4	3 1/4	2 1/4	3 1/4	—	1.7
	20C81	300	2.8	60	1500	BAH	Leads	2 3/4	4	2 1/4	3 5/16	—	2.5
E	20C17	300	8.0	90	2500	GGV	Leads	3 1/8	3 3/32	3 1/4	2 1/2	2 1/4	6.3
	20C70	300	8.0	80	3000	CAV	Leads	4 1/4	3 1/2	3 1/4	3	2 1/8	7.3
	20C69	300	8.0	80	3000	GGV	Leads	4 1/4	4	3 1/8	3	2 13/16	7.8
	20C18	300	10	105	3000	GGV	Leads	4 1/4	3 3/4	4 1/8	2 1/4	3	7.75
	20C19	310	2.6	60	1500	GGV	Leads	3 1/8	2 11/16	3 1/8	2	2 1/8	3.6
F	20C79	350	0.6	35	1500	BAH	Leads	1 3/4	2 13/16	1 1/2	2 1/8	—	0.6
	20C78	350	1.0	35	1500	BAH	Leads	2	3 5/16	2	2 13/16	—	1.35
	20C20	350	8.0	105	5000	GGV-2	Leads	4 3/8	3 15/16	4	3	2 1/8	8.0
	20C92	375	0.8	25	1500	BAH	Leads	2 5/16	3 11/16	2	3 1/8	—	1.5
	20C21	375	1.5	50	1500	BAH	Leads	2 5/16	3 11/16	2	3 1/4	—	1.5
G	20C95	380	2.75	46	1500	BAH	Leads	2 3/8	4	2	3 5/16	—	2.5
	20C22	400	6.0	60	3000	GGV	Leads	4 1/2	3 15/16	4 1/2	3	3 1/4	10.5
	20C23	500	10	65	3000	GGV	Leads	5 1/16	4 1/2	5 1/2	3 1/2	4 1/2	16.5
	20C24	500	10	65	5000	GGV-2	Leads	5 5/16	4 1/2	5 1/2	3 1/2	4 1/2	17.75
	20C81	600	0.32	10	1500	BAH	Leads	2	3 1/4	2	2 13/16	—	1.3



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INDUCTORS

HIGH CURRENT CHOKES

Section	TM Part No.	Notes	Amps DC	Induct. M.H.	DC Res. Ohms	RMS Test Volts	Style	Termination	Outline Dimensions H	W	D	Mounting Dimensions MW	MD	Wt. Lbs.
A	TR153	—	1.0	3	0.25	1000	BCH-1	Leads	1¼	1½	1	1¼	7/16	0.2
	TR154	—	1.0	11	0.75	1000	BCH-1	Leads	1¼	1½	1	1¼	7/16	0.2
	20C25	Dual Winding*	1.0 2.0	300 75	3.0 0.75	1500	LAV	Leads	3½	2⅜	3 1/16	2¼	2⅝	3.5
	20C00	—	2.0	35	0.75	1500	LAH	Leads	2⅜	2⅝	2¼	2 5/16	2	1.9
	20C26	Dual Winding*	2.5 5.0	80 20	0.60 0.15	1500	LAV	Leads	3 1/16	3 1/16	3 1/16	2½	3 1/16	6.0
B	20C01	—	4.0	25	0.425	1500	LHH	Lugs	3	3⅜	2⅜	2 1/16	2⅜	3.4
	20C27	Dual Winding*	5.0 10.0	32 8	0.20 0.05	1500	LAV	Leads	4⅛	3½	3 1/16	2¼	3 1/16	7.5
	20C02	—	8.0	10	0.15	1500	LAH	Leads	3¼	3¾	3 1/16	3½	2½	5.3
	20C03	—	12.5	10	0.11	1500	LAH	Leads	3½	4⅛	3 1/16	3 1/16	2⅝	5.9
	20C100	—	22.5	5.0	0.03	1500	LHH	Lugs	3⅜	4½	4½	3¼	3½	11.9
C	20C28	Dual Winding*	20.0 40.0	24 6.0	0.10 0.025	1500	LHV	Lugs	5 1/16	4 5/16	5½	2¼	4½	20.0
	20C192	Dual Winding*	20.0 40.0	24 6.0	0.12 0.029	1500	LAV	Leads	5¼	4 1/16	5¼	3½	4¼	21.2

*May be connected in "Series" or "Parallel" for values listed.

MINIATURIZED HIGH CURRENT CHOKES

Section	TM Part No.	DC Amps	Nominal Induct. M. H.	DC Res. Ohms	RMS Test Volts	Style	Termination	Outline Dimensions H	W	D	Mounting Dimensions MW	MD	Wt. Lbs.
D	20C186	.065	2000	180	1500	BAH	Leads	1¼	2⅛	1⅛	1¼	—	0.20
	20C187	.135	400	31	1500	BAH	Leads	1¼	2⅛	1⅛	1¼	—	0.20
	20C188	.135	700	40	1500	BAH	Leads	1 7/16	2⅛	1¼	2	—	0.4
	20C189	.275	250	16	1500	BAH	Leads	1 7/16	2⅛	1¼	2	—	0.4
	20C190	.275	400	22	1500	BAH	Leads	1⅜	2⅛	1 7/16	2⅛	—	0.7
E	20C191	.550	125	6.0	1500	BAH	Leads	1⅜	2⅛	1 7/16	2⅛	—	0.7
	20C192	.500	250	10	1500	BAH	Leads	2	3¼	1 11/16	2 13/16	—	1.0
	20C193	1.000	75	2.5	1500	BAH	Leads	2	3¼	1 11/16	2 13/16	—	1.0

SWINGING CHOKES

Section	TM Part No.	Notes	MADC	Induct. Henries	DC Res. Ohms	RMS Test Volts	Style	Termination	Outline Dimensions H	W	D	Mounting Dimensions MW	MD	Wt. Lbs.
F	20C76	—	150-15	4-14	125	2000	GGV	Leads	3⅛	2⅛	2½	2	1 5/16	2.5
	20C30	—	200-20	5-25	150	2500	GGV	Leads	3½	3	3½	2¼	2⅛	4.6
	20C79	—	250-25	2-12	60	3000	GGV	Leads	3⅜	3	3½	2¼	2⅛	4.25
	20C110	—	300-30	4-20	80	3000	LAV	Leads	4⅛	3¼	3½	3	2½	7.2
	20C31	—	300-30	5-25	105	3000	GGV	Leads	4¼	3⅜	4⅛	2¾	3	7.6
G	20C32	—	350-35	4-20	105	5000	GGV-2	Leads	4⅛	3 1/16	4	3	2⅛	8.0
	20C33	—	400-40	4-20	65	3000	GGV	Leads	4⅛	3 1/16	4½	3	3¼	10.5
	20C41	—	500-50	5-25	65	3000	GGV	Leads	5 1/16	4½	5⅛	3½	4⅛	16.75
	27C65	S	100	*68 MH	0.8	750	AJ	Terms	2⅛	1⅜	1⅜	1 1/16	1 1/16	1.2
	—	S	200	52 MH	—	—	—	—	—	—	—	—	—	—
	—	S	1000	20 MH	—	—	—	—	—	—	—	—	—	—
	—	S	2000	14 MH	—	—	—	—	—	—	—	—	—	—
	—	P	200	17 MH	0.2	—	—	—	—	—	—	—	—	—
	—	P	400	13 MH	—	—	—	—	—	—	—	—	—	—
	—	P	2000	5 MH	—	—	—	—	—	—	—	—	—	—
	—	P	4000	3.5 MH	—	—	—	—	—	—	—	—	—	—

S—Values shown when dual winding is connected in Series.
P—Values shown when dual winding is connected in parallel.

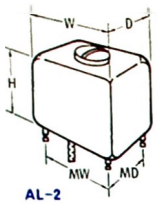
*Dual windings may be connected in series or parallel for values listed.

THORDARSON has additional standard and stocked **CHOKES/INDUCTORS** which are not listed in this catalog. Contact factory for additional information.

THORDARSON

INDUCTORS

ALIGNAIRE VARIABLE INDUCTORS



AL-2

These Alignaire Inductors are ideally suited for hard to align or frequently changed circuits such as low frequency oscillators, attenuators, low frequency tuned amplifiers, filters and delay lines. The high frequency and temperature stability built into these units make them most applicable to mid-audio tuned frequency circuits.

Provided in a wide range of inductance values, these units require only a simple screw driver adjustment to achieve the exact inductance required for the circuit. Less than three turns of the alignment screw are necessary to move the internal piston through its complete range. Each unit has tapped winding 30% and 50%.

Section	TM Part No.	Inductance* In Henrys		Max. MADC	Resistance In Ohms	Case Type	Mtg. Centers	Dimensions		
		Maximum	Minimum					H	W	D
A	†27C200	70.0	7.0	3.6	2,200	AL-2	17/32	1 7/32	1 1/8	23/32
	†27C199	30.0	3.00	5	945	AL-2	17/32	1 7/32	1 1/8	23/32
	†27C198	11.0	1.10	7	365	AL-2	17/32	1 7/32	1 1/8	23/32
	†27C197	5.00	.500	10	140	AL-2	17/32	1 7/32	1 1/8	23/32
	†27C196	2.00	.200	16	55	AL-2	17/32	1 7/32	1 1/8	23/32
B	†27C195	.700	.070	20	22	AL-2	17/32	1 7/32	1 1/8	23/32
	†27C194	.300	.030	30	8.7	AL-2	17/32	1 7/32	1 1/8	23/32
	†27C193	.111	.011	40	3.5	AL-2	17/32	1 7/32	1 1/8	23/32
	†27C192	.050	.005	60	1.42	AL-2	17/32	1 7/32	1 1/8	23/32
	†27C191	.020	.002	100	.51	AL-2	17/32	1 7/32	1 1/8	23/32

*Inductance Range given for 0 MADC
†Winding Tapped at 30% and 50%

REPLACEMENT PARTS

THORDARSON maintains the most complete line of replacement transformers in the industry. Television flybacks, yokes, vertical output and power transformers are stocked in-depth plus thousands of other hard-to-get transformers and chokes for consumer, commercial, industrial, medical, and military applications. Your THORDARSON distributor has up-to-date TV replacement information.

SPECIAL APPLICATION FLYBACKS AND YOKES

THORDARSON has over 500 stock TV flybacks and over 200 stock yokes which could solve your high voltage transformer or deflection yoke requirements off-the-shelf. There are many advantages using a stock item in special circuit applications including low prototype cost and fast delivery. Also, future availability, even in small quantities, can be assured. Your THORDARSON distributor has a complete list of available items.

SPECIAL APPLICATION INDUCTORS

In addition to the inductors listed in CATALOG 76, THORDARSON designs and builds inductors and reactors for every application. The following list of categories cover those available from our standard stock items:

- MOLDED AND EPOXY COATED TOROIDAL

  0.6 to 50,000 mh ± 2% high Q epoxy coated units with leads (TOR 800 and 900 series) or epoxy molded MIL-T-27 construction (TOR 700 and TOR 7100 up).

- ENCASED SHIELDED TOROIDAL

  1 to 60,000 mh ± 1% high Q designed and built to meet MIL-T-27 TF4RXZOYY with excellent stability over a wide temperature and voltage range low hum pick-up (TOR 7100 up).

- ENCASED LOW FREQUENCY HIGH Q

  1 to 2500 hy ± 2% designed to Q of 40 or more at frequencies of 60 to 300 hertz with magnetic shielding and humbucking construction. Split winding termination allow series, parallel, or series center-tap connections.

- MINIATURE TRANSISTOR AND AUDIO

  0.06 to 1,090 hy at various tolerances in all types of construction for military, industrial and commercial applications.

Besides the additional standard categories mentioned above, THORDARSON designs and builds thousands of non-standard special inductors and reactors to customer specifications. These items range in size from ultra-miniature units of the smallest size to large charging reactors for radar modulators. Our design and manufacturing facilities are available for all requirements, large and small. Contact factory for further information.

TV EXACT REPLACEMENTS

THORDARSON has the most complete line of TV exact replacement transformers in the industry. Color television flybacks, yokes, vertical output and power transformers are designed and manufactured as exact replacements for virtually all popular makes and models and many older black and white types are available too. Contact your THORDARSON distributor for FREE up-to-date TV replacement information.

THORDARSON

RECTIFIER TRANSFORMERS

LOW VOLTAGE TRANSFORMER INDEX

NEW **FAST** **COMPLETE**

At a glance, a transformer with the required voltage and current ratings can be quickly located by using this index.

All voltage and current ratings are listed in RMS (AC) and may be operated at these full range values in AC circuits. In addition, these transformers may be used in rectified output circuits by simply adding a correction factor to the RMS current rating. This factor depends upon the type of recifier and filter circuit as shown in the chart below. Multiply the DC current required by the percentage factor shown for the appropriate rectifier-filter combination to obtain the corrected RMS rating.

RECTIFIER-FILTER CHART

Filter Type	Rectifier Type	RMS Current Equals
Capacity Input	Half Wave	300% x DC current
	Full Wave CT	110% x DC current
	Bridge	150% x DC current
Choke Input	Full Wave CT	70% x DC current
	Bridge	100% x DC current

LISTED IN ORDER OF INCREASING SECONDARY VOLTAGES

RECTIFIER AND CONTROL TRANSFORMERS: SINGLE SECONDARY WITH 50/60 Hz PRIMARY UNLESS INDICATED. FILAMENT UNITS LISTED TO PROVIDE COMPLETE LOW-VOLTAGE TRANSFORMER INDEX OF SINGLE SECONDARY NON-PLUG-IN TYPES.

TM Part No.	Secondary Volts	Secondary Amps	Primary Volts	RMS Test Volts	Style	Termination Primary	Termination Secondary	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
21F191	2.5 C.T.	0.3	117	1500	BAH	Leads	Leads	1⅛	2⅛	1⅛	1¾	—	0.3
21F192	2.5	1.0	117	1500	BAH	Leads	Leads	1⅛	2⅛	1⅛	2	—	0.4
21F34	2.5	1.5	117	1500	BAH	Leads	Leads	1½	2⅛	1½	2⅛	—	0.7
21F120	2.5 C.T.	3.0	117	1500	BAH	Leads	Leads	1⅛	2⅛	1¼	2⅛	—	0.6
21F165	2.5 C.T.	3.0	115/230	1500	BAH	Leads	Leads	1¼	2⅛	1⅛	2⅛	—	0.5
21F31	2.5 C.T.	5.0	117	7500	BAV	Leads	Leads	2 11/16	3 5/16	2¼	2 13/16	—	1.5
21F00	2.5 C.T.	5.0	117	2500	BAV	Leads	Leads	2⅛	2⅛	1¾	2⅛	—	1.0
21F92	2.5 C.T.	6.0	117	1500	BAH	Leads	Leads	2	3 5/16	1⅛	2 13/16	—	1.0
21F166	2.5 C.T.	6.0	115/230	1500	BAH	Leads	Leads	2	3 5/16	2	2 13/16	—	1.0
21F93	2.5 C.T.	10.0	117	1500	BAH	Leads	Leads	2 5/16	3¼	2⅛	3⅛	—	1.5
21F01	2.5 C.T.	10.0	117	2500	BAV	Leads	Leads	2 11/16	3 5/16	2	2 13/16	—	1.5
21F32	2.5 C.T.	10.0	107/117	2500	GGV	Leads	Leads	3¼	2⅛	2⅛	2	1¾	2.5
21F103	2.5 C.T.	10.0	107/117	7500	BAV	Leads	Leads	3⅛	3⅛	2⅛	3⅛	—	2.5
21F02	2.5 C.T.	10.0	117	10000	CAV	Leads	Leads	3⅛	2½	2¼	2	1¾	2.75
21F58	2.5 C.T.	10.0	117	10000	LHV	Lugs	Lugs	3½	2⅞	2½	2¼	1⅞	2.5
21F36	5.0 C.T.	3.0	117	5000	GGV	Leads	Leads	3⅛	2⅞	2½	2	1½	2.5
21F84	5.0 C.T.	3.0	117	1500	BAH	Leads	Leads	2	3 5/16	2	2 13/16	—	1.3
21F03	5.0 C.T.	3.0	117	2500	BAV	Leads	Leads	2⅝	2⅞	1¾	2⅝	—	1.0
21F105	5.0 C.T.	6.0	107/117	2000	BAV	Leads	Leads	2⅞	3⅛	2¼	2 13/16	—	2.0
21F37	5.0 C.T.	6.0	117	2500	LHV	Lugs	Lugs	3⅛	2½	2½	2	2	2.25
21F183	5.0 C.T.	6.0	107/117	2500	GGV	Leads	Leads	3⅛	2½	2⅞	2	1 13/16	2.25
21F04	5.0 C.T.	8.0	117	2500	CAV	Leads	Leads	3⅛	2½	2¼	2	1¾	2.5
21F13	5.0 C.T.	10.0	117	2500	CAV	Leads	Leads	3⅛	2⅞	2½	2	2⅜	3.0
26F86	5.0 C.T.	15	117	2500	CAV	Leads	Leads	3	2½	2⅞	2	2⅛	3.5
21F20	5.0 C.T.	15.0	117	10000	CAV	Leads	Leads	4⅛	3¼	3¼	3	2½	6.75
21F07	5.0 C.T.	21.0	117	2500	CAV	Leads	Leads	3⅛	3 5/16	3	2¼	2½	5.0

Listing continued on next page

THORDARSON

RECTIFIER TRANSFORMERS

LOW VOLTAGE TRANSFORMER INDEX

LISTED IN ORDER OF INCREASING SECONDARY VOLTAGES

LISTING STARTS ON PAGE 32

RECTIFIER AND CONTROL TRANSFORMERS: SINGLE SECONDARY WITH 50/60 Hz PRIMARY UNLESS INDICATED. FILAMENT UNITS LISTED TO PROVIDE COMPLETE LOW-VOLTAGE TRANSFORMER INDEX OF SINGLE SECONDARY NON-PLUG-IN TYPES.

TM Part No.	Secondary Volts	Secondary Amps	Primary Volts	RMS Test Volts	Style	Termination Primary	Termination Secondary	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
21F39	5.0 C.T.	22.0	107/117	10000	KTV	Terms	Terms	5⅛	4⅛	8½	2¾	6	13.5
21F185	5.0 C.T.	30.0	117	2500	GGV	Leads	Leads	4 5/16	3¾	4	3	2 13/16	8.0
21F155	†5.0 C.T.	30.0	117	2500	GGV	Leads	Leads	4⅛	3¾	4	3	2⅞	7.5
21F33	5.0 C.T.	30.0	110/115/120	2500	GTV	Terms	Terms	3⅜	3 1/16	4⅛	2½	2 13/16	6.2
21F69	†6.3/5.0 Tap	2.0	117	5000	BAH	Leads	Leads	2	3 1/16	2	2 1/16	—	1.25
26F73	6.3 C.T.	0.3	117	1500	BAH	Leads	Leads	1¼	2⅛	1⅜	1¼	—	0.3
21F21	6.3	0.6	117	1500	BAH	Leads	Leads	1⅜	2⅛	1¼	2	—	0.75
21F162	6.3 C.T.	0.6	117	1500	BAH	Leads	Leads	1⅜	2⅛	1½	2	—	0.4
21F156	6.3 C.T.	0.6	117	1500	BAH	Leads	Leads	1⅜	2⅛	1⅜	2	—	0.4
21F167	6.3 C.T.	0.6	115/230	1500	BAH	Leads	Leads	1⅜	2⅛	1⅜	2	—	0.6
21F200	6.3 C.T.	0.6	230	1500	BAH	Leads	Leads	1⅜	2⅛	1½	2	—	0.4
21F143	6.3 C.T.	1.0	117	1500	BAH	Leads	Leads	1⅜	2⅛	1½	2⅛	—	0.6
21F08	6.3 C.T.	1.2	117	2500	BAV	Leads	Leads	2	2⅛	1½	2	—	0.7
21F09	6.3 C.T.	1.2	117	2500	BAH	Leads	Leads	1⅜	2⅛	1½	2⅛	—	0.7
21F212	*6.3	1.2	117	2500	BAH	*Leads	Leads	1⅜	2⅛	1⅜	2⅛	—	0.7
26F60	6.3	1.2	117	5000	BAH	Leads	Leads	2	3¼	2	2 1/16	—	1.25
21F168	6.3 C.T.	1.2	115/230	2500	BAH	Leads	Leads	1⅜	2 5/16	1⅜	2⅛	—	0.5
21F184	†6.3 C.T.	3.0	117	2500	LHV	Lugs	Lugs	3½	2½	2½	2	1¾	2.0
21F10	6.3 C.T.	3.0	117	2500	BAH	Leads	Leads	2	3¼	2⅛	2 1/16	—	1.25
21F108	6.3	3.0	107/117	7000	BAV	Leads	Leads	3⅛	3 1/16	2⅛	3⅛	—	2.0
21F169	6.3 C.T.	3.0	115/230	2500	BAH	Leads	Leads	1 15/16	3 1/16	2	2 1/16	—	1.3
21F71	6.3	4.0	117	1500	BAH	Leads	Leads	2	3 1/16	2	2 1/16	—	1.25
21F70	6.3	4.0	117	5000	BAH	Leads	Leads	2 9/16	4	2¼	3 9/16	—	2.1
21F203	6.3 C.T.	4.0	117	1500	BAH	Leads	Leads	2½	3¼	2⅛	3⅛	—	1.6
21F41	6.3 C.T.	4.0	107/117	2500	GGV	Leads	Leads	3½	2⅛	2⅛	2	1 11/16	2.75
21F204	6.3 C.T.	5.0	117	1500	BAH	Leads	Leads	2⅛	3¼	2⅛	3⅛	—	1.8
21F148	6.3 C.T.	6.0	117	2000	BAV	Leads	Leads	3⅛	3 1/16	2½	3⅛	—	2.0
21F69	6.3 C.T.	6.0	117	2500	LHV	Lugs	Lugs	3⅛	2⅛	2½	2	2	2.75
21F11	6.3 C.T.	6.0	117	1500	CAV	Leads	Leads	3½	2½	2½	2	1¾	2.5
21F42	6.3 C.T.	6.0	107/117	2500	GGV	Leads	Leads	3¼	3	3¼	2	2¼	3.5
21F72	6.3 C.T.	6.0	107/117	2000	BAH	Leads	Leads	2¼	3¼	2½	3¼	—	2.0
21F170	6.3 C.T.	6.0	115/230	1500	BAH	Leads	Leads	2 15/32	4	2¼	3 5/16	—	2.3
21F96	6.3 C.T.	8.0	117	1500	BAH	Leads	Leads	2⅜	4	2½	3 9/16	—	2.5
21F74	6.3 C.T.	10.0	117	1500	GGV	Leads	Leads	3½	3	3⅛	2¼	2	3.8
21F12	6.3 C.T.	10.0	117	2500	CAV	Leads	Leads	3⅛	2½	2½	2	2	3.25

†Has Faraday Shield. *2½ "Leads From Top of Coil. *Same As 21F09 Except No Secondary C.T.

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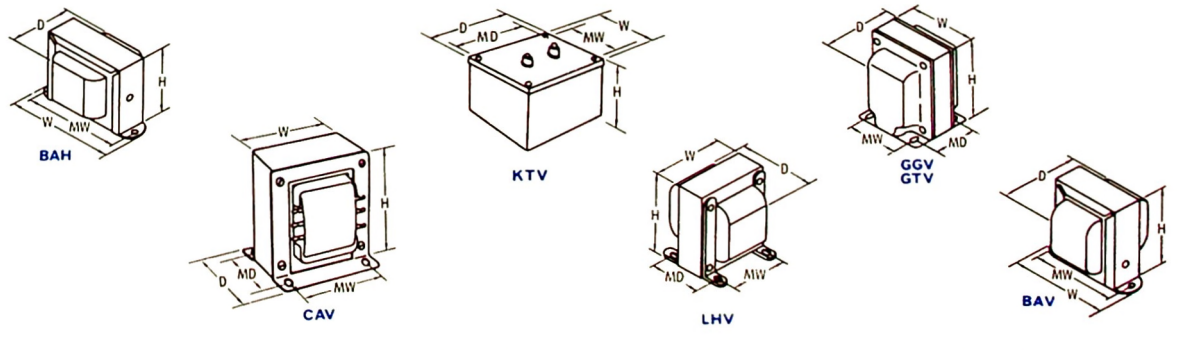


THORDARSON

RECTIFIER TRANSFORMERS

LOW VOLTAGE TRANSFORMER INDEX

LISTED IN ORDER OF INCREASING SECONDARY VOLTAGES

LISTING STARTS ON PAGE 32

RECTIFIER AND CONTROL TRANSFORMERS: SINGLE SECONDARY WITH 50/60 Hz PRIMARY UNLESS INDICATED. FILAMENT UNITS LISTED TO PROVIDE COMPLETE LOW-VOLTAGE TRANSFORMER INDEX OF SINGLE SECONDARY NON-PLUG-IN TYPES.

TM Part No	Secondary Volts	Secondary Amps	Primary Volts	RMS Test Volts	Style	Termination Primary	Termination Secondary	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
21F43	6.3 C.T.	10.0	107/117	2500	LAV	Leads	Leads	3½	2⅜	2¾	2¼	2 5/16	3.5
21F109	*6.0 C.T./6.5 C.T./7.0 C.T.	13	117	2000	LHV	Lugs	Cu. Tabs.	3⅛	2 13/16	3⅜	2¼	2 11/16	4.5
21F76	6.3 C.T.	15.0	117	10000	LAV	Leads	Leads	4¼	3½	3 5/16	2¾	2 13/16	7.5
21F77	6.3 C.T.	20.0	117	2500	GGV	Leads	Leads	3⅞	3 9/32	4¼	2½	2 15/16	7.0
21F25	6.3 C.T.	20.0	107/117	2500	LAV	Leads	Leads	4⅛	3 13/16	3¼	3	2⅜	6.7
21F79	*6.3 C.T./7.5 C.T.	25.0	117	3000	LHV	Leads	Lugs	4⅛	3 13/16	3 5/16	3	3 1/16	7.5
21F15	7.5 C.T.	4.0	117	2500	BAV	Leads	Leads	2¼	3⅜	2⅛	2 13/16	—	2.0
21F45	7.5 C.T.	4.0	117	2500	LHV	Lugs	Lugs	3⅛	2⅝	2¾	2	2⅛	2.7
21F110	7.5 C.T.	5.0	107/117	2500	GGV	Leads	Leads	3½	3	3	2¼	1⅞	3.4
21F62	7.5 C.T.	8.0	117	2500	LAV	Leads	Leads	3⅞	3⅛	2⅜	2½	2⅜	4.7
21F16	7.5 C.T.	8.0	117	2500	CAV	Leads	Leads	3½	2¾	2½	2	2	3.25
21F111	7.5 C.T	21.0	107/117	2500	GGV	Leads	Leads	4½	3¾	4	2¾	3	8.0
25F18	7.5 C.T.	25	115/230	2500	TTV	Terms	Terms	5 5/16	4 5/16	5¼	2½	4¾	12.0
21F205	10.0 C.T.	1.0	117	1500	BAH	Leads	Leads	2	3¼	1⅜	2 13/16	—	0.9
21F206	10.0 C.T.	2.0	117	1500	BAH	Leads	Leads	2	3¼	2	2 13/16	—	1.3
26F71	10.0 C.T.	3.0	117	1500	BAH	Leads	Leads	2⅛	3¼	2¼	3⅛	—	1.6
21F171	10.0 C.T.	3.0	117	2000	BAH	Leads	Leads	2 5/32	3¼	2⅛	3⅛	—	1.7
21F207	10.0 C.T.	4.0	117	1500	BAH	Leads	Leads	2⅛	4	2½	3 9/16	—	2.3
21F61	10.0 C.T.	4.0	117	2500	LHV	Lugs	Lugs	3 5/16	2⅞	2⅛	2¼	2⅛	3.25
21F172	10.0 C.T.	5.0	117	2000	LAV	Leads	Leads	3	2½	2⅛	2 1/16	2	2.5
21F18	10.0 C.T.	5.0	117	2500	CAV	Leads	Leads	3⅛	2 9/16	2½	2	1¾	2.25
21F47	10.0 C.T.	5.0	107/117	2500	GGV	Leads	Leads	3⅜	3¼	3¼	2½	1 15/16	4.0
21F208	10.0 C.T.	6.0	117	1500	LAV	Leads	Leads	3⅛	2½	2¾	2	2 1/16	3.1
21F209	10.0 C.T.	8.0	117	1500	LAV	Leads	Leads	3 7/16	2 13/16	3	2¾	2½	4.1
21F28	10.0 C.T.	8.0	117	2500	CAV	Leads	Leads	3⅞	3½	3½	2½	2⅞	4.9
21F29	10.0 C.T.	8.0	107/117	2500	GGV	Leads	Leads	3⅞	3¼	3½	2½	2 7/16	5.2
21F173	10.0 C.T.	10.0	117	2000	LAV	Leads	Leads	4⅛	3½	3¼	2¾	2 7/16	7.5
21F112	10.0 C.T.	10.0	117	2000	GGV	Leads	Leads	3⅞	3¼	3½	2½	2 7/16	5.2
21F68	*10.0 C.T./11.0 C.T./12.0 C.T.	11.0	115	3000	LAV	Leads	Leads	4⅛	3½	3 5/16	2¾	2 5/16	6.5
21F113	11.0 C.T.	10.0	107/117	2500	GGV	Leads	Leads	4¾	4	3½	3	2 7/16	7.7
23V252	12.0	0.150	117	1500	BAH	Leads	Leads	1¾	2⅛	1¾	1¾	—	0.25
23V253	12.0	0.300	117	1500	BAH	Leads	Leads	1⅞	2½	1¾	2	—	0.35
23V254	12.0	0.700	117	1500	BAH	Leads	Leads	1⅞	2⅞	1½	2⅛	—	0.6
23V255	12.0	1.2	117	1500	BAH	Leads	Leads	2	3¼	1⅜	2 13/16	—	0.85
23V415	12.0	2.0	117	1500	BAH	Leads	Leads	2	3¼	2⅛	2 13/16	—	1.3
23V416	12.0	4.0	117	1500	BAH	Leads	Leads	2⅛	4	2¼	3 1/16	—	2.3
23V417	12.0	6.0	117	1500	LAV	Leads	Leads	3 1/16	2 13/16	2⅛	2¼	2⅛	3.4
23V418	12.0	8.0	117	1500	LAV	Leads	Leads	3 13/16	3½	2¼	2½	2⅛	4.3
21F174	12.6 C.T.	1.0	117	1500	BAH	Leads	Leads	1 15/16	3 5/16	1¼	2 13/16	—	0.9
26F72	12.6 C.T.	1.0	117	1500	BAH	Leads	Leads	2	3¼	1¼	2 13/16	—	0.9
21F149	12.6 C.T.	1.5	117	1500	BAH	Leads	Leads	2	3¼	2	2 13/16	—	1.0
21F175	12.6 C.T.	1.5	115/230	1500	BAH	Leads	Leads	2	3¼	2	2 13/16	—	1.0
26F67	12.6 C.T.	2.0	117	1500	BAH	Leads	Leads	2	3¼	2	2 13/16	—	1.1
21F176	12.6 C.T.	2.0	115/230	1500	BAH	Leads	Leads	2	3¼	2	2 13/16	—	1.1

*Secondary Voltage varies by means of Primary Taps.

Listing continued on next page

THORDARSON has additional standard and stocked **RECTIFIER TRANSFORMERS** which are not listed in this catalog. Contact factory for additional information.

RECTIFIER TRANSFORMERS

LOW VOLTAGE TRANSFORMER INDEX

LISTED IN ORDER OF INCREASING SECONDARY VOLTAGES

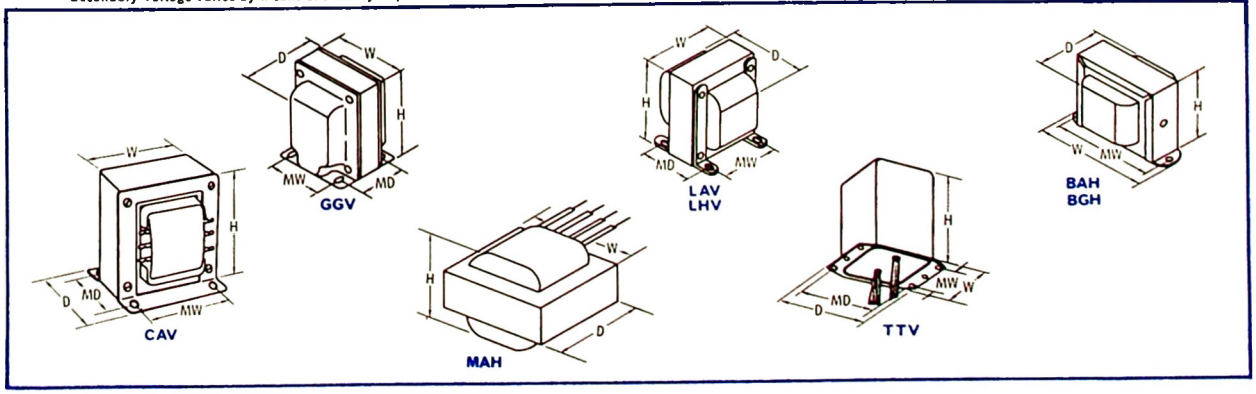
LISTING STARTS ON PAGE 32

RECTIFIER AND CONTROL TRANSFORMERS: SINGLE SECONDARY WITH 50/60 Hz PRIMARY UNLESS INDICATED. FILAMENT UNITS LISTED TO PROVIDE COMPLETE LOW-VOLTAGE TRANSFORMER INDEX OF SINGLE SECONDARY NON-PLUG-IN TYPES.

TM Part No.	Secondary Volts	Secondary Amps	Primary Volts	RMS Test Volts	Style	Termination Primary	Termination Secondary	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
21F201	12.6 C.T.	2.0	230	1500	BAH	Leads	Leads	2	3¼	2½	2 13/16	—	1.75
21F177	12.6 C.T.	2.5	115/230	1500	BAH	Leads	Leads	2 5/16	3 11/16	2	3½	—	1.5
21F81	12.6 C.T.	2.5	117	1500	BAH	Leads	Leads	2¼	3⅜	2⅛	3⅛	—	1.6
21F150	12.6 C.T.	3.0	117	1500	BAH	Leads	Leads	2 5/16	3 11/16	2¼	3⅛	—	1.2
21F50	12.6 C.T.	3.0	117	2000	LAV	Leads	Leads	3 1/16	2 5/16	2⅛	2	2	3.5
21F193	12.6 C.T.	4.0	117	1500	BAH	Leads	Leads	2¾	4	2⅜	3 5/16	—	2.5
21F202	12.6 C.T.	4.0	230	2500	BAH	Leads	Leads	2⅝	4	2⅜	3 5/16	—	2.5
21F194	12.6 C.T.	6.0	117	1500	GGV	Leads	Leads	3½	2 13/16	3⅜	2¼	2¼	3.5
21F52	(Parallel) 12.6/12.6	3.5/3.5	117	2500	GGV	Leads	Leads	3½	2⅛	3⅛	2¼	2⅛	5.0
21F195	12.6 C.T.	8.0	117	1500	GGV	Leads	Leads	3⅜	3⅛	3⅛	2 5/16	2½	4.5
21F196	12.6 C.T.	10.0	117	1500	GGV	Leads	Leads	4¼	3 7/16	3⅛	2 11/16	2¼	5.5
23V210	18.4 C.T.	0.9	115	1500	BAH	Leads	Leads	2	3 1/16	1¾	2 11/16	—	0.75
23V153	24.0	0.04	115	500	MAH	Leads	Leads	⅞	1 1/16	1	—	—	0.1
23V256	24.0 C.T.	0.085	117	1500	BAH	Leads	Leads	1¾	2½	1¼	1¾	—	0.25
23V401	24.0 C.T.	0.085	230	1500	BAH	Leads	Leads	1¼	2⅛	1¼	1¾	—	0.25
23V257	24.0 C.T.	0.2	117	1500	BAH	Leads	Leads	1⅜	2⅛	1⅜	2	—	0.35
23V402	24.0 C.T.	0.2	230	1500	BAH	Leads	Leads	1⅜	2⅛	1⅜	2	—	0.35
23V258	24.0 C.T.	0.4	117	1500	BAH	Leads	Leads	1⅜	2⅛	1⅜	2	—	0.6
23V403	24.0 C.T.	0.4	230	1500	BAH	Leads	Leads	1⅜	2⅛	1⅜	2⅜	—	0.6
23V259	24.0 C.T.	0.7	117	1500	BAH	Leads	Leads	2	3¼	1¾	2 11/16	—	0.85
23V404	24.0 C.T.	0.7	230	1500	BAH	Leads	Leads	2	3¼	1¾	2 11/16	—	0.85
21F84	24.0 C.T.	1.0	117	1500	BAH	Leads	Leads	2	3¼	2	2 11/16	—	1.5
26F68	24.0	1.0	117	2500	BAH	Leads	Leads	2	3¼	2	2 11/16	—	1.5
21F181	24.0 C.T.	1.0	115/230	1500	BAH	Leads	Leads	2	3¼	2	2 11/16	—	1.5
23V419	24.0 C.T.	4.0	117	1500	LAV	Leads	Leads	3 11/16	3⅛	2 11/16	2½	2⅛	4.0
23V420	24.0 C.T.	6.0	117	1500	LAV	Leads	Leads	4 1/16	3 7/16	3	2¼	2¼	5.7
23V421	24.0 C.T.	8.0	117	1500	LAV	Leads	Leads	4 1/16	3 7/16	3⅛	2¼	2¼	7.3
21F163	24.0 C.T.	10.0	117	1500	CAV	Leads	Leads	4 5/16	3¼	3¼	3	2¾	7.5
23V422	24.0 C.T.	12.0	117	1500	LAV	Leads	Leads	4 5/16	3¼	4½	3	3¼	11.5
*21F100	*24.5 to 29.0 C.T.	0.04	117	1500	BAH	Leads	Leads	1¼	2½	1⅜	1¾	—	0.25
*21F101	*24.5 to 29.0 C.T.	0.25	117	1500	BAH	Leads	Leads	1⅜	2 13/16	1⅜	2⅛	—	0.6
*21F188	*24.5 to 29.0 C.T.	0.04	117	2500	BAH	Leads	Leads	1¼	2⅛	1⅜	1¾	—	0.25
*21F189	*24.5 to 29.0 C.T.	0.25	117	2500	BAH	Leads	Leads	1⅜	2 13/16	1⅜	2⅛	—	0.6
21F61	25.2	1.0	117	1500	BAH	Leads	Leads	2	3¼	2⅛	2 13/16	—	1.5
21F159	25.2	1.0	230	1500	BAH	Leads	Leads	2	3¼	2⅛	2 13/16	—	1.5
21F142	25.2 C.T.	1.0	117	1500	BAH	Leads	Leads	2	3¼	2⅛	2 13/16	—	1.5
21F186	25.2 C.T.	1.0	117	1500	BGH	Leads	Leads	2	3¼	2⅛	2 13/16	—	1.5

*Secondary Voltage varies by means of Primary Taps.

Listing continued on next page



THORDARSON

RECTIFIER TRANSFORMERS

LOW VOLTAGE TRANSFORMER INDEX

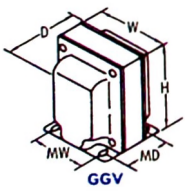
LISTED IN ORDER OF INCREASING SECONDARY VOLTAGES

LISTING STARTS ON PAGE 32

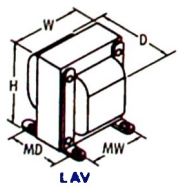
RECTIFIER AND CONTROL TRANSFORMERS: SINGLE SECONDARY WITH 50/60 Hz PRIMARY UNLESS INDICATED. FILAMENT UNITS LISTED TO PROVIDE COMPLETE LOW-VOLTAGE TRANSFORMER INDEX OF SINGLE SECONDARY NON-PLUG-IN TYPES.

TM Part No.	Secondary Volts	Secondary Amps	Primary Volts	RMS Test Volts	Style	Termination Primary	Termination Secondary	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
21F83	25.2 C.T.	2.0	117	1500	BAH	Leads	Leads	2 9/16	4	2 1/4	3 9/16	—	2.2
21F180	25.2 C.T.	2.0	115/230	1500	BAH	Leads	Leads	2 9/16	4	2 1/4	3 9/16	—	2.2
21F114	25.2 C.T.	3.0	117	1500	BAH	Leads	Leads	2 9/16	4	2 1/4	3 9/16	—	2.2
21F52	(Series) 12.6/12.6	3.5/3.5	117	2500	GGV	Leads	Leads	3 1/2	2 3/8	3 1/8	2 1/4	2 5/8	5.0
21F197	25.2 C.T.	5.0	117	1500	GGV	Leads	Leads	4 1/4	3 7/16	3 1/8	2 1/4	2 11/16	5.5
21F198	25.2 C.T.	7.5	117	1500	GGV	Leads	Leads	4 1/4	3 7/16	4 1/4	2 3/4	3 1/16	7.5
21F199	25.2 C.T.	10.0	117	1500	GGV	Leads	Leads	4 5/16	3 1/2	5	3	3 13/16	10.0
21F27	26.5 C.T.	0.6	117	3000	BAH	Leads	Leads	2	3 1/4	2 1/8	2 13/16	—	1.6
21F82	26.8 C.T.	1.0	117	1500	BAH	Leads	Leads	2	3 1/4	2	2 13/16	—	1.6
21F178	26.8 C.T.	1.0	115/230	1500	BAH	Leads	Leads	2	3 1/4	2 1/8	2 13/16	—	1.7
23V270	26.8 C.T.	1.7	115	1500	BAH	Leads	Leads	2 1/8	4	2 1/4	3 9/16	—	2.2
23V378	28.0 C.T.	0.085	117	1500	BAH	Leads	Leads	1 1/4	2 1/8	1 1/4	1 3/4	—	0.25
23V380	28.0 C.T.	0.175	117	1500	BAH	Leads	Leads	1 3/8	2 1/8	1 3/4	2	—	0.35
23V381	28.0 C.T.	0.3	117	1500	BAH	Leads	Leads	1 5/8	2 3/8	1 1/2	2 1/8	—	0.6
23V382	28.0 C.T	0.8	117	1500	BAH	Leads	Leads	2	3 1/4	2	2 13/16	—	1.0
23V423	28.0 C.T.	1.0	117	1500	BAH	Leads	Leads	2	3 1/4	2 1/8	2 13/16	—	1.4
23V424	28.0 C.T.	2.0	117	1500	LAV	Leads	Leads	3 1/8	2 1/2	2 1/2	2	2 5/16	2.9
23V425	28.0 C.T.	4.0	117	1500	LAV	Leads	Leads	3 13/16	3 1/8	3 1/4	2 1/2	2 1/2	5.3
23V426	28.0 C.T.	6.0	117	1500	LAV	Leads	Leads	4 5/16	3 7/16	3 1/2	2 3/4	2 5/8	7.0
21F190	30.0	3.0	117	1500	GGV	Leads	Leads	3 1/2	2 13/16	3 1/8	2 1/4	2 7/16	4.2
23V384	36.0 C.T.	0.065	117	1500	BAH	Leads	Leads	1 1/4	2 1/8	1 1/4	1 1/4	—	0.25
23V405	36.0 C.T.	0.065	230	1500	BAH	Leads	Leads	1 1/4	2 1/8	1 1/4	1 1/4	—	0.25
23V385	36.0 C.T.	0.135	117	1500	BAH	Leads	Leads	1 3/8	2 3/4	1 3/8	2	—	0.35
23V386	36.0 C.T.	0.3	117	1500	BAH	Leads	Leads	1 5/8	2 1/8	1 1/2	2 3/8	—	0.6
23V387	36.0 C.T.	0.55	117	1500	BAH	Leads	Leads	2	3 1/4	1 5/8	2 13/16	—	1.0
23V427	36.0 C.T.	1.0	117	1500	BAH	Leads	Leads	2 1/8	3 1/4	2 1/4	3 1/8	—	2.0
23V428	36.0 C.T.	2.0	117	1500	LAV	Leads	Leads	3 7/16	2 13/16	2 3/4	2 1/4	2 1/8	3.5
23V429	36.0 C.T.	4.0	117	1500	LAV	Leads	Leads	4 5/16	3 1/16	2 3/8	2 3/4	2 3/8	6.0
23V430	36.0 C.T.	6.0	117	1500	LAV	Leads	Leads	4 5/16	3 3/4	3 1/2	3	2 5/8	8.3
21F187	*45 to 54 C.T.	1.0	117	2500	BAH	Leads	Leads	2 3/4	4	2 3/4	3 9/16	—	2.3
23V377	50.0 C.T.	1.0	117	1500	GGV	Leads	Leads	3 1/8	2 1/2	2 3/4	2	1 3/4	2.3
23V215	64.0 C.T.	0.9	115	1500	BAH	Leads	Leads	2 9/16	4	2 1/4	3 9/16	—	1.75
23V88	72.0 C.T.	0.075	115	1500	BAH	Leads	Leads	1 5/8	2 13/16	1 3/4	2 3/8	—	0.6

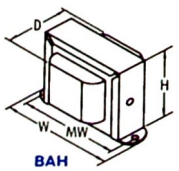
*Secondary Voltage Varies By Means of Primary Taps.



GGV



LAV



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THORDARSON

RECTIFIER TRANSFORMERS

SILICON RECTIFIER POWER: 117V 50/60 Hz PRIMARY

These transformers have been designed to fill the gap between the electronic tube—high voltage, low current—type of transformer and the transistor—low voltage, high current—type unit. The two 6.3 volt windings may be connected in series or in parallel to provide either 6.3 volts or 12.6 volts CT. They may also be used with suitable rectifiers to supply a low voltage DC source.

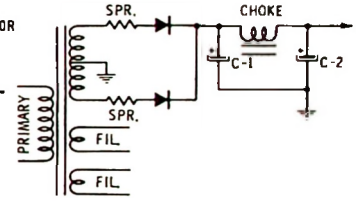
Section	TM Part No.	Secondary No. 1		Secondary No. 2		Secondary No. 3		Termination		Style	Outline Dimensions			Mounting Dimensions		Wt. Lbs.
		Volts	MADC	Volts	Amps RMS	Volts	Amps RMS	Primary	Secondary		H	W	D	MW	MD	
A	24R100	400 C.T.	400	6.3	3.0	6.3	3.0	Leads	Leads	GGV	4¼	3 7/16	4¼	2¾	3 7/16	7.1
	24R101	300 C.T.	600	6.3	2.5	6.3	2.5	Leads	Leads	GGV	4¼	3 7/16	4¼	2¾	3 7/16	7.1
	23V378	54 C.T.	500	6.3	0.5	—	—	Leads	Leads	GGV	2⅝	2¼	2 5/16	1¾	1⅝	1.7
	24R102	200 C.T.	800	6.3	2.0	6.3	2.0	Leads	Leads	GGV	4¼	3 7/16	4¼	2¾	2 11/16	6.9
	24R103	100 C.T.	1600	6.3	1.5	6.3	1.5	Leads	Leads	GGV	4¼	3 7/16	3¼	2¾	2 11/16	6.0
B	24R104	80 C.T.	2000	6.3	1.5	6.3	1.5	Leads	Leads	GGV	4¼	3 7/16	4	2¾	2 11/16	6.5
	24R105	60 C.T.	2500	6.3	1.5	6.3	1.5	Leads	Leads	GGV	4¼	3 7/16	4	2¾	2 11/16	6.5

TYPICAL OPERATION CHART

The following chart has been prepared to simplify the designing of complete low voltage power supplies for the silicon rectifier power transformer shown above. The DC Voltages are average and may vary slightly in individual units, due to variations in component values.

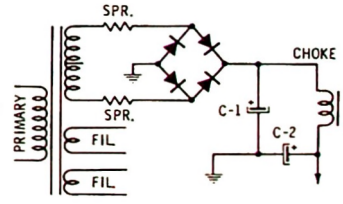
Selection of the silicon rectifiers recommended in this chart was based on a 50°C maximum rectifier temperature, for higher temperature operation refer to manufacturer's specifications.

Part No.	DC Output Volts	DC Output MADC	Filter† Input	Choke Part No.	C-1 In MFD	C-2 In MFD	Typical Silicon Rectifiers
24R105	31	2,500	Capacitive	20C26	500	500	1N1124 R, 1N1621, 1N1342/A
24R105	23	4,000	Inductive	20C01	—	1,000	1N1342 A, 1N1621, 10J2(I.R.)
24R104	47	2,000	Capacitive	20C25	500	500	1N1086, 20LA, 1N1124/R, 1N1343/A, 1N1620R
24R104	33	3,000	Inductive	20C01	—	1,000	1N1124R, 1N1342/A, 1N1621, 10J2(I.R.)
24R103	53	1,600	Capacitive	20C25	200	200	1N1086/20LA, 1N1124/R, 1N1344/A
24R103	41	2,600	Inductive	20C26	—	300	1N1124/R, 1N1344/A
24R102	105	800	Capacitive	20C25	40	150	1N611/A, 1N1087/30LA, 1N1117, 1N1565
24R102	86	1,400	Inductive	20C25	—	350	1N1117, 1N1087/30LA
24R101	148	600	Capacitive	26C81	8	20	1N1095, 1N1491, 1N1104, 1N2614, 1N4433
24R101	130	1,000	Inductive	20C25	—	125	*1N611/A, 1N1541, 1N1565A
24R100	192	400	Capacitive	26C81	10	10	*1N604, 1N1084, 1N540, 1N2483, 1N1103
24R100	173	570	Inductive	20C25	—	200	*1N256, 1N1696, 1N605/A, 1N540, 1N2483



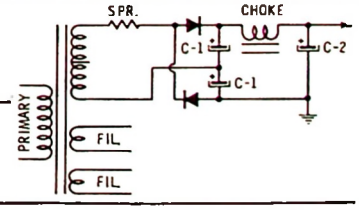
†SPR = Surge Protection Resistance required with a capacitive input filter.

Part No.	DC Output Volts	DC Output MADC	Filter† Input	Choke Part No.	C-1 In MFD	C-2 In MFD	Typical Silicon Rectifiers
24R105	70	1,060	Capacitive	20C25	200	200	1N610, 1N3189, 1N1540, 1N1564A
24R105	50	2,000	Inductive	20C25	—	500	1N1087, 1N1086, 1N1124/R
24R104	93	810	Capacitive	20C25	100	100	1N610, 1N3189, 1N1540, 1N1564A
24R104	71	1,500	Inductive	20C25	—	250	1N1087, 1N1086, 1N1124/R
24R103	100	880	Capacitive	20C25	40	80	1N610 1N3189, 1N1540, 1N1564A
24R103	88	1,160	Inductive	20C25	—	300	1N1087, 1N1086, 1N1124/R
24R102	247	377	Capacitive	26C92	30	40	1N604 1N1084, 1N256, 1N1696
24R102	172	625	Inductive	26C81	—	250	1N540 1N1103, 1N1169, 1N2483, 1N2613
24R101	322	305	Capacitive	26C91	8	20	1N256, 1N1696, 1N605/A
24R101	285	425	Inductive	20C25	—	125	1N256, 1N1696, 1N605/A
24R100	502	150	Capacitive	20C68	8	10	*1N604, 1N1084, 1N256, 1N1696
24R100	330	302	Inductive	20C70	—	20	*1N604, 1N1084, 1N256, 1N1696



†SPR = Surge Protection Resistance required with a capacitive input filter.

Part No.	DC Output Volts	DC Output MADC	Filter† Input	Choke Part No.	C-1 In MFD	C-2 In MFD	Typical Silicon Rectifiers
24R105	150	553	Capacitive	26C81	500	200	1N540, 1N1103, 1N1169, 1N2483, 1N2613
24R104	212	390	Capacitive	26C95	150	80	1N540, 1N1103, 1N1169, 1N2483, 1N2613
24R103	240	325	Capacitive	26C93	80	16	1N540, 1N1103, 1N1169, 1N2483, 1N2613
24R102	536	188	Capacitive	20C94	80	30	1N547, 1N1096, 1N2071, 1N2484
24R101	802	142	Capacitive	26C89	60	20	*1N547, 1N1096, 1N2071, 1N2484
24R100	1,040	75	Capacitive	20C71	8	2	*1N547, 1N1096, 1N2071, 1N2484



†SPR—SURGE PROTECTION RESISTORS are required with capacitive input filters. Allow 3.5 ohms per 70 volts RMS applied voltage, then subtract the secondary winding DC resistance from this value. The remainder will be the total resistance required for the SPR Resistance.

*To meet the higher peak inverse voltage required connect 2 rectifiers in series in each leg of the circuit.

†SPR = Surge Protection Resistance required with a capacitive input filter.

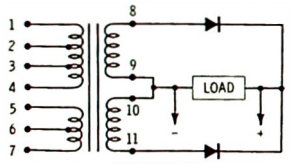
THORDARSON

RECTIFIER TRANSFORMERS

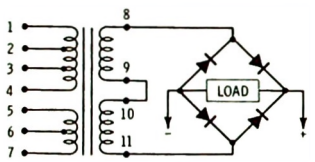
UNIVERSAL RECTIFIER: 117 V 50/60 Hz PRIMARY-LUG TERMINATIONS-STYLE LHV.

Each Selenium Rectifier Transformer listed in this section has terminal numbering and winding arrangement as shown in schematics. Primary connections are made to terminals 1, 2, 3, 4, 5, 6 and 7. The winding connected to terminals 5, 6 and 7 is a separate isolated primary winding, designed for the purpose of extending the voltage range of the transformer. This is accomplished by connecting the winding in series aiding or in series bucking with terminals 2, 3 or 4. Two identical secondary windings are connected to terminals 8 and 9 and to 10 and 11. Complete connection data supplied with each unit.

Section	TM Part No.	Fullwave Rectifier Circuits	Secondary AC Volts	Res. or Ind. Load		Capacitive Load		Recommended Capacitor	Outline Dimensions			Mounting Dimensions		Wt. Lbs.
				DC Volts	DC Amps	DC Volts	DC Amps		H	W	D	MW	MD	
A	23V60	C.T. Bridge	11.7 to 29.4 11.1 to 28.5	3.3 to 11.2 7.4 to 23.0	2.0 1.25	3.5 to 12.8 8.7 to 30.0	2.0 1.25	1000 mfd 500 mfd	3⅛	2⅜	2⅛	2	2⅛	2.5
	23V61	C.T. Bridge	12.2 to 29.7 12.2 to 29.7	3.7 to 11.1 8.9 to 24.3	4.0 2.0	4.0 to 14.7 10.8 to 33.0	4.0 2.0	2000 mfd 1000 mfd	3⅞	2 13/16	3⅛	2¼	2⅜	3.75
	23V62	C.T. Bridge	11.7 to 29.2 11.8 to 29.2	4.3 to 12.0 8.8 to 24.0	8.0 4.0	4.5 to 14.5 11.4 to 32.4	8.0 4.0	4000 mfd 2000 mfd	3 11/16	3 1/16	4⅛	2½	3⅜	6.5
	23V63	C.T. Bridge	12.0 to 29.8 12.0 to 29.6	3.4 to 11.5 8.4 to 24.0	12.0 6.0	3.9 to 14.4 10.0 to 32.0	12.0 6.0	6000 mfd 3000 mfd	4¼	3 9/16	4¼	2¾	3¼	8.0
	23V64	C.T. Bridge	12.2 to 29.7 12.1 to 29.2	3.9 to 11.4 8.7 to 23.7	15.0 8.0	4.4 to 14.5 10.4 to 32.5	15.0 8.0	7500 mfd 4000 mfd	4½	3⅞	5⅜	3	4⅜	13.5
B	23V66	C.T.	12.2 to 29.1	3.9 to 11.4	22.5	4.0 to 14.3	22.5	11250 mfd	5⅜	4 1/16	4½	4½	3¾	14.0
	23V406	C.T. Bridge	23.5 to 60.0 23.5 to 60.0	9.0 to 25.0 20.5 to 53.0	1.0 0.5	11.0 to 34.0 27.0 to 74.0	1.0 0.5	1500 mfd 600 mfd	3⅛	2½	3⅛	2	2¼	2.7
	23V407	C.T. Bridge	24.0 to 59.0 24.0 to 59.0	9.0 to 25.0 20.5 to 52.5	2.0 1.0	11.5 to 34.0 28.5 to 73.5	2.0 1.0	2500 mfd 1500 mfd	3 7/16	2 13/16	3 11/16	2¼	2½	4.1
	23V408	C.T. Bridge	23.0 to 58.0 23.0 to 58.0	9.0 to 25.0 20.0 to 51.5	4.0 2.0	11.0 to 33.5 27.0 to 72.5	4.0 2.0	3000 mfd 1500 mfd	3 13/16	3⅛	4½	2½	3 1/16	6.9
	23V65	C.T. Bridge	25.0 to 53.0	8.0 to 44.0	8.0 4.375	25.0 to 63.0	8.0	4000 mfd	5¼	4 1/16	6	3½	5⅛	25.0
C	23V67	C.T. Bridge	25.0 to 53.0	18.0 to 43.5	12.0 5.625	24.0 to 60.0	12.0	6000 mfd	6⅛	5⅛	5¼	4¼	4½	23.5



FULL WAVE CT

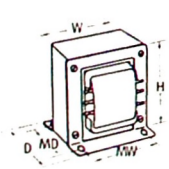


FULL WAVE BRIDGE

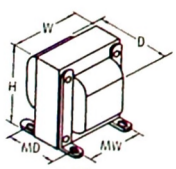
UNIVERSAL RECTIFIER—ENCASED MILITARY: PRIMARY 115 V 50/60 Hz —DUAL SECONDARY—TAPPED PRIMARY.

For transistor supply, bias supply, battery chargers, and similar applications. Designed and built to MIL-T-27 specifications. Industrial ratings are also given.

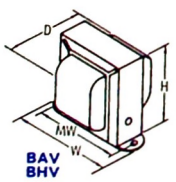
Section	Part No.	MIL-T-27 Classification	Military DC Range	Industrial DC Range	MIL Case	Mounting Dimensions	Case Dimensions			Wt. Lbs.
							H	W	D	
D	27V60	TF4RX02AH	6V—.065A to 53V—.025A	6V—.085A to 53V—.025A	AH	1¼	1¾	1 9/16	1 9/16	.37
	27V61	TF4RX02AJ	6V—.22A to 53V—.07A	6V—.028A to 53V—.085A	AJ	1 9/16 x 1 3/16	2⅜	1⅝	1⅝	.6
	27V62	TF4RX02FA	6V—1.2A to 53V—.4A	6V—1.52A to 53V—.48A	FA	1 11/16 x 1 7/16	3⅛	2 1/16	2 5/16	1.75
	27V63	TF4RX02HA	6V—3A to 53V—1A	6V—3.8A to 53V—1.2A	HA	2 13/64 x 1 55/64	4¼	2⅝	3 1/16	4.5
	27V64	TF4RX02KA	6V—7.5A to 53V—2.5 A	6V—9A to 53V—2.5 A	KA	3 x 2 7/16	5¼	3⅜	3 15/16	8.5



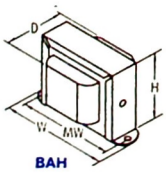
CAV
CHV



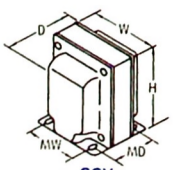
LAV



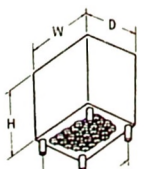
BAV
BHV



BAH



GGV
GTV



MIL

THORDARSON

RECTIFIER TRANSFORMERS

117V 50/60 Hz PRIMARY—TAPPED SECONDARY—WITH LEADS

Section	TM Part No.	Secondary Volts	Secondary Amps	RMS Test Volts	Style	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
A	23V360	12.0 C.T.	10.0	1500	LAV	3¼	3⅛	3½	2½	2⅞	6.2
	23V100	17.0/18.0	3.0	1500	LAV	3⅛	2⁹⁄₁₆	2¹³⁄₁₆	2	2⅞	3.2
	23V101	17.0/18.0	6.0	1500	LAV	3¹³⁄₁₆	3⁹⁄₁₆	3⁹⁄₁₆	2½	2¹³⁄₁₆	5.5
	23V210	18.4 C.T.	0.9	1500	BAH	2	3¹⁄₁₆	1¾	2¹³⁄₁₆	—	0.8
	23V383	20.0 C.T.	1.0	1500	BAH	2	3¼	2⅛	2¹³⁄₁₆	—	1.4
B	23V89	72.0 C.T.	0.075	1500	BAH	1⅝	2¹³⁄₁₆	1⅝	2⅛	—	0.6
	23V122	80.0 C.T.	1.2	1500	GGV	3½	2⅞	3½	2½	2⅛	4.5

115/230V 50/60 Hz PRIMARY—TAPPED SECONDARY—WITH LEADS

Section	TM Part No.	Secondary Volts	Secondary Amps	RMS Test Volts	Style	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
C	23V357	17.0/18.0	3.0	1500	CAV	3⅛	2⁹⁄₁₆	2¹³⁄₁₆	1⅝	2⅛	3.2
	23V356	24.0 C.T.	2.0	1500	BAH	1⅝	2⅛	1½	2	—	0.45
	23V358	6.5/13.0/19.5/26.0	3.0	1500	LAV	3½	2⅞	2¹³⁄₁₆	2¼	2⁹⁄₁₆	3.5
	23V359	27.0/30.0/33.0/36.0	3.0	1500	LAV	3¹³⁄₁₆	3⁹⁄₁₆	3⁹⁄₁₆	2½	2¹³⁄₁₆	5.6

SIGNALING—115V 60 Hz PRIMARY—TAPPED SECONDARY—WITH LEADS

Section	TM Part No.	Secondary Volts	Secondary Amps	RMS Test Volts	Style	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
D	23V03	4/8/12/16/20/24	2.0 to 2.8	1500	BAH	2¼	3¹¹⁄₁₆	2½	3⅛	—	1.7
	23V04	4/8/12/16/20/24	4.0 to 5.6	1500	LAV	3½	2⅞	2⁹⁄₁₆	2¼	2¹⁄₁₆	3.1
	23V40	4/8/12/16/20/24	2.0 to 2.9	1500	GTV*	3⁹⁄₁₆	3	3½	2¼	1⅛	3.0
	23V41	4/8/12/16/20/24	4.0 to 5.9	1500	GTV*	4	3¼	4	2½	2⅛	5.0

*Secondary has terminals

DUAL SECONDARIES—115/230V 50/60 Hz PRIMARY

These transformers all have 115V/230V, 50/60 Hz. primaries, two separate secondaries and solder terminals. The secondaries may be connected in series or parallel and used to control all types of low-voltage devices such as bells, lamps, relays, solenoids, etc. The secondary voltages may be reduced to half rated by applying 115V to 230V primary.

Section	TM Part No.	Secondary Outputs: Each Winding Volts	Each Winding Amps	Sec. in Series Volts	Sec. in Series Amps	Sec. in Parallel Volts	Sec. in Parallel Amps	VA Capacity	Style	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
E	23V60	6.0	1.0	12	1.0	6.0	2.0	12	BHV	2⅛	2½	1⅛	2⅛	—	1.0
	23V51	6.0	2.0	12	2.0	6.0	4.0	24	BHV	2¾	3⅛	2⅛	2¹³⁄₁₆	—	1.5
	23V52	12	2.0	24	2.0	12	4.0	48	BHV	3½	3⁹⁄₁₆	2½	3⅛	—	2.5
	23V53	12	4.0	24	4.0	12	8.0	96	CHV	3¹⁄₁₆	2⅞	3½	2¼	2⅛	4.3
	23V54	12	8.0	24	8.0	12	16	192	CHV	4¹⁄₁₆	3½	3½	2¾	2⅞	8.0
F	23V388	24	0.25	48	0.25	24	0.5	12	BHV	2⅛	2½	1⅛	2⅛	—	1.0
	23V389	24	0.50	48	0.50	24	1.0	24	BHV	2¾	3⅛	2⅛	2¹³⁄₁₆	—	1.5
	23V390	24	1.0	48	1.0	24	2.0	48	BHV	3½	3⁹⁄₁₆	2⅛	3⅛	—	2.5
	23V391	24	2.0	48	2.0	24	4.0	96	CHV	3¹⁄₁₆	2⅞	3½	2¼	2⅛	4.3
	23V392	24	4.0	48	4.0	24	8.0	192	CHV	4¹⁄₁₆	3½	3½	2¾	2⅞	8.0

TRIPLE SECONDARIES—117V 50/60 Hz PRIMARY—WITH LEADS

These transformers all have three separate 12-volt secondaries, one center-tapped. Various combinations of voltage and current are possible by series or parallel hook-up.

Section	TM Part No.	Each Secondary Volts	Each Secondary Amps	Secondaries in Series Volts	Secondaries in Series Amps	Secondaries in Parallel Volts	Secondaries in Parallel Amps	Style		Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
G	23V236	12	0.10	36	0.10	12	0.30	BAV		1¾	2	1½	1¾	—	0.36
	23V237	12	0.15	36	0.15	12	0.45	BAV		2	2⅛	1¾	2	—	0.60
	23V238	12	0.25	36	0.25	12	0.75	BAV		2⅛	2⅞	2	2⅛	—	0.85
	23V239	12	0.50	36	0.50	12	1.50	BAV		2¾	2⅞	2¼	2⅛	—	1.25

THORDARSON

RECTIFIER TRANSFORMERS

117V 50/60 Hz PRIMARY—MULTI—TAPPED SECONDARY—WITH LEADS

Section	TM Part No.	Secondary Volts	Secondary Amps	RMS Test Volts	Style	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
A	23V103	6.3/13/19.5/26	3.0	1500	LAV	3½	2⅜	2 11/16	2¼	2 5/16	3.5
	23V107	7/8/9	7.0	1500	LAV	3½	2⅜	2 11/16	2¼	2 5/16	3.5
	23V396*	18/20/22	2.0	1500	BHV*	3⅛	3 9/16	2¼	3½	—	2.5
	23V104	24/27/30/33/36	3.0	1500	LAV	3 13/16	3 5/16	3 5/16	2½	2 11/16	5.6
	23V105	24/27/30/32/36	8.0	1500	LAV	4⅝	3 13/16	3 13/16	3	3¼	10.75
B	23V394	24/26/28/30	15.0	1500	LAH▲	3 11/16	4½	5½	3¼	4⅜	17.0

*Secondary has Solder Lug Terminals.
▲Secondary Leads have Terminals attached.

117V 50/60 Hz PRIMARY—DUAL SECONDARIES—WITH LEADS

Section	TM Part No.	Primary Volts	Secondary 1 Volts	Secondary 1 Amps	Secondary 2 Volts	Secondary 2 Amps	RMS Test Volts	Style	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
C	23V121*	117	*13/18*	.900	13/18*	.900	1500	GGV	3⅛	3	2½	2	2	2.7
	23V102	117	36	3.0	36	3.0	1500	LAV	4⅝	3¼	3¼	3	3 1/16	9.7

*Secondary Voltage varied by means of Primary Taps.

MULTIPLE PRIMARY AND SECONDARY TAPS—WITH LEADS

Section	TM Part No.	Primary Volts (Blk/Blk/Yel)	Secondary Volts*	Secondary Amps			Style	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
D	23V115	117	10-20-40*	0.035	—	—	BAH	1⅜	2⅜	1⅜	2	—	.5
	23V116	117	10-20-40*	0.100	—	—	BAH	1⅜	2 13/16	1¼	2⅜	—	.7
	23V117	117	10-20-40*	0.300	—	—	BAH	2¼	3 11/16	2	3⅛	—	1.5
	23V118	117	10-20-40*	0.750	—	—	BAH	2⅜	4	2¼	3 9/16	—	2.4
	23V119	117	10-20-40*	1.0	—	—	GGV	3¼	2 11/16	3	2	2⅛	3.2
E	23V411	117	6 to 42*	1.0	—	—	GGV	3⅛	2½	3⅛	2	2⅛	3.2
	23V410	117	6 to 42*	0.750	—	—	BAH	2⅜	4	2⅜	3 9/16	—	2.3
	23V409	117	6 to 42*	0.035	—	—	BAH	1⅜	2⅜	1 7/16	2	—	.45

‡DC MA. Bridge Type.
*Additional Secondary Voltages available in Ranges provided by applying Primary Voltage to other Taps (see schematic).

117V 50/60 Hz PRIMARY—SINGLE SECONDARY—WITH LEADS

12 VOLTS

Section	TM Part No.	Secondary Volts	Secondary Amps	RMS Test Volts	Style	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
F	23V252	12	0.150	1500	BAH	1¼	2⅜	1¼	1¾	—	0.25
	23V253	12	0.300	1500	BAH	1⅜	2⅜	1⅜	2	—	0.35
	23V254	12	0.700	1500	BAH	1⅜	2⅜	1½	2⅜	—	0.6
	23V255	12	1.2	1500	BAH	2	3¼	1⅜	2 13/16	—	0.85
G	23V416	12	2.0	1500	BAH	2.0	3¼	2⅛	2 13/16	—	1.3
	23V416	12	4.0	1500	BAH	2⅝	4.0	2¼	3 9/16	—	2.3
	23V417	12	6.0	1500	LAV	3 7/16	2 11/16	2⅜	2¼	2⅛	3.4
	23V418	12	8.0	1500	LAV	3 11/16	3⅛	2¼	2½	2⅛	4.3

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RECTIFIER TRANSFORMERS

117V 50/60 Hz PRIMARY—SINGLE SECONDARY—WITH LEADS (cont'd)

24 VOLTS

Section	TM Part No.	Secondary Volts	Secondary Amps	RMS Test Volts	Style	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
A	23V163	24	0.04	500	MAH	⅞	1 1/16	1	—	—	0.1
	23V256	24 C.T.	0.085	1500	BAH	1¼	2⅛	1¼	1¼	—	0.25
	23V257	24 C.T.	0.200	1500	BAH	1⅜	2⅜	1⅜	2	—	0.35
	23V258	24 C.T.	0.400	1500	BAH	1⅝	2⅜	1⅝	2	—	0.6
	23V259	24 C.T.	0.700	1500	BAH	2	3¼	1¾	2 13/16	—	0.85
B	23V419	24 C.T.	4.0	1500	LAV	3 13/16	3⅛	2 13/16	2½	2⅛	4.0
	23V420	24 C.T.	6.0	1500	LAV	4 1/16	3 1/16	3.0	2¾	2¼	5.7
	23V421	24 C.T.	8.0	1500	LAV	4 1/16	3 1/16	3⅜	2¾	2¼	7.3
	23V422	24 C.T.	12.0	1500	LAV	4 9/16	3¾	4⅛	3.0	3¼	11.5

28 VOLTS

Section	TM Part No.	Secondary Volts	Secondary Amps	RMS Test Volts	Style	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
C	23V379	28 C.T.	0.085	1500	BAH	1¼	2⅛	1¼	1¼	—	0.25
	23V380	28 C.T.	0.175	1500	BAH	1⅜	2⅜	1⅜	2	—	0.35
	23V381	28 C.T.	0.300	1500	BAH	1⅝	2⅜	1½	2⅜	—	0.6
	23V382	28 C.T.	0.800	1500	BAH	2	3¼	2	2 13/16	—	1.0
D	23V423	28 C.T.	1.0	1500	BAH	2.0	3¼	2⅛	2 13/16	—	1.4
	23V424	28 C.T.	2.0	1500	LAV	3⅛	2½	2½	2.0	2 5/16	2.9
	23V425	28 C.T.	4.0	1500	LAV	3 13/16	3½	3¼	2½	2½	5.3
	23V426	28 C.T.	6.0	1500	LAV	4 9/16	3 13/16	3½	2¾	2⅝	7.0

30 VOLTS

Section	TM Part No.	Secondary Volts	Secondary Amps	RMS Test Volts	Style	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
E	21F190	30	3.0	1500	GGV	3½	2 13/16	3⅛	2¼	2 1/16	4.2

36 VOLTS

Section	TM Part No.	Secondary Volts	Secondary Amps	RMS Test Volts	Style	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
F	23V384	36 C.T.	0.065	1500	BAH	1¼	2⅛	1¼	1¼	—	0.25
	23V385	36 C.T.	0.135	1500	BAH	1⅜	2⅜	1⅜	2	—	0.35
	23V386	36 C.T.	0.300	1500	BAH	1⅝	2⅜	1½	2⅜	—	0.6
	23V387	36 C.T.	0.550	1500	BAH	2	3¼	1⅝	2 13/16	—	1.0
	23V427	36 C.T.	1.0	1500	BAH	2⅛	3¼	2¼	3⅛	—	2.0
G	23V428	36 C.T.	2.0	1500	LAV	3 1/16	2 13/16	2⅛	2¼	2⅛	3.5
	23V429	36 C.T.	4.0	1500	LAV	4 1/16	3 1/16	2⅛	2¾	2⅛	6.0
	23V430	36 C.T.	6.0	1500	LAV	4 9/16	3¼	3½	3	2⅛	8.3

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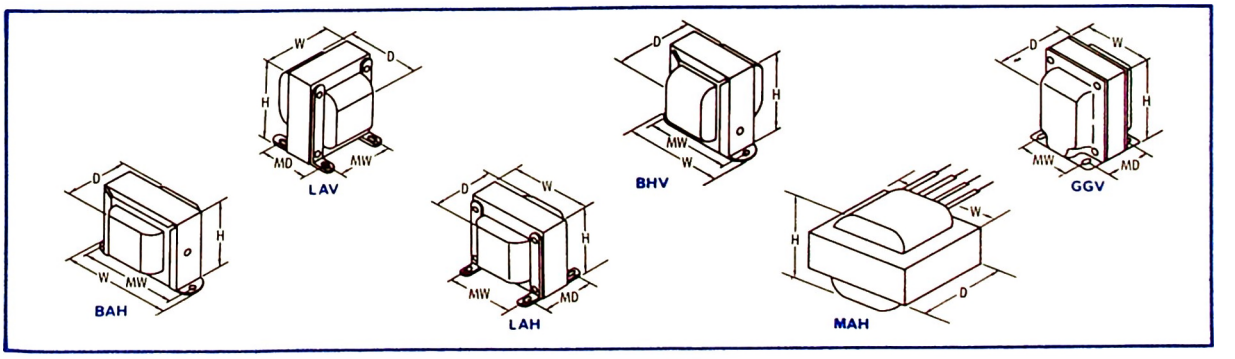


THORDARSON has additional standard and stocked **RECTIFIER TRANSFORMERS** which are not listed in this catalog. Contact factory for additional information.

THORDARSON

RECTIFIER TRANSFORMERS

117V 50/60 Hz PRIMARY—SINGLE SECONDARY— WITH LEADS (cont'd)

48 VOLTS

Section	TM Part No.	Secondary Volts	Secondary Amps	RMS Test Volts	Style	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
A	21F187	48 C.T.†	1.0	2500	BAH	2⅝	4	2⅜	3⁹⁄₁₆	—	2.3

†Primary tapped to provide secondary voltage of 45 C.T. or 48 C.T. or 51 C.T. or 54 C.T.

50 VOLTS

Section	TM Part No.	Secondary Volts	Secondary Amps	RMS Test Volts	Style	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
B	23V377	50 C.T.	1.0	1500	GGV	3½	2½	2¼	2	1¾	2.3

64 VOLTS

Section	TM Part No.	Secondary Volts	Secondary Amps	RMS Test Volts	Style	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
C	23V215	64 C.T.	0.9	1500	BAH	2⁹⁄₁₆	4	2½	3⁹⁄₁₆	—	1.75

72 VOLTS

Section	TM Part No.	Secondary Volts	Secondary Amps	RMS Test Volts	Style	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
D	23V89	72 C.T.	0.075	1500	BAH	1⅛	2¹³⁄₁₆	1⅜	2⅛	—	0.6

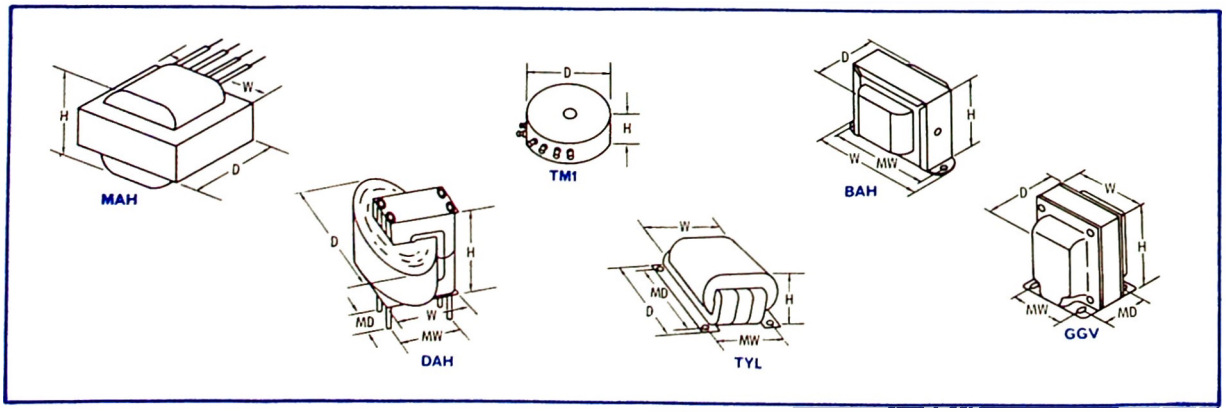
230V 50/60 Hz PRIMARY—SINGLE SECONDARY

24 VOLTS

Section	TM Part No.	Secondary Volts	Secondary Amps	RMS Test Volts	Style	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
E	23V401	24 C.T.	0.085	1500	BAH	1¼	2⅛	1¼	1¼	—	0.25
	23V402	24 C.T.	0.200	1500	BAH	1⅜	2⅝	1⅜	2	—	0.35
	23V403	24 C.T.	0.400	1500	BAH	1⅝	2⅞	1⅝	2⅝	—	0.60
	23V404	24 C.T.	0.700	1500	BAH	2	3¼	1¾	2¹³⁄₁₆	—	0.85

36 VOLTS

Section	TM Part No.	Secondary Volts	Secondary Amps	RMS Test Volts	Style	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
F	23V405	36 C.T.	0.065	1500	BAH	1¼	2⅛	1¼	1¼	—	0.25



THORDARSON has additional standard and stocked **RECTIFIER TRANSFORMERS** which are not listed in this catalog. Contact factory for additional information.

THORDARSON

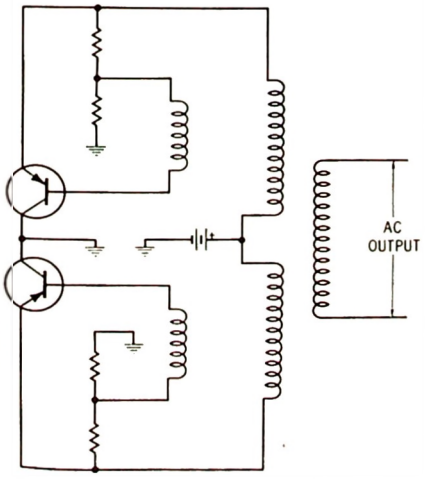
RECTIFIER TRANSFORMERS

INVERTER/CONVERTER—TRANSISTOR POWER SUPPLY

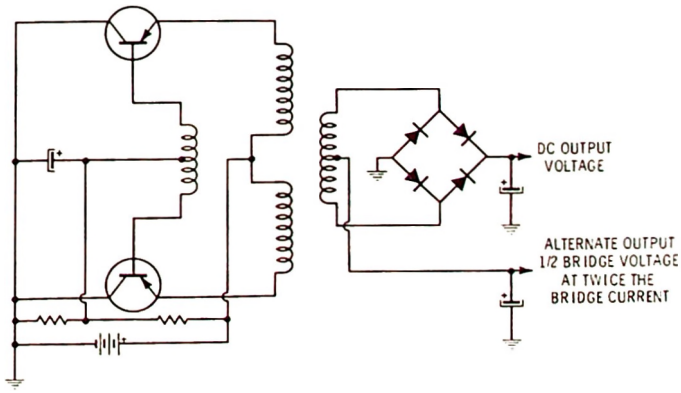
Section	Part No.	Application	Style	DC Input Volts	Output Volts	Output MADC	Output PWR	Mounting Dimensions MW	Mounting Dimensions MD	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Termination	Wt. Lbs.
A	TR269	Converter	TMI	12.6	250/125	100/200	25	11/64	—	3/4	—	1 3/4	Lug	.4
	TR270	Converter	TMI	12.6	300/150	200/400	60	11/64	—	1	—	1 3/4	Lug	.4
	TR271	Converter	TMI	12.6	325/162.5	150/300	49	11/64	—	1	—	1 3/4	Lug	.4
	TR272	Converter	TMI	12.6	375/187.5	200/400	75	11/64	—	1	—	2	Lug	.5
	TR273	Converter	TMI	12.6	450/225	150/300	68	11/64	—	1	—	2	Lug	.5
B	TR274	Converter	TMI	12.6	500/250	250/500	125	3/16	—	1 1/8	—	2 1/4	Lug	.6
	TR275	Converter	TMI	12.6	600/300	200/400	120	3/16	—	1 1/8	—	2 1/4	Lug	.6
	TR483	Converter	TMI	12.6	600/300	350	105	11/64	—	1 1/8	—	2 1/8	Lug	1.2
	TR484	Converter	TMI	12.6	425/212.5	350	75	3/16	—	1 1/8	—	2 1/4	Lug	.6
	TR276	Converter	TMI	28	250/125	80/160	20	7/64	—	9/16	—	1 5/16	Lug	.4
C	TR277	Converter	TMI	28	300/150	100/200	30	11/64	—	3/4	—	1 3/4	Lug	.4
	TR278	Converter	TMI	28	325/162.5	200/400	65	11/64	—	1	—	1 3/4	Lug	.4
	TR279	Converter	TMI	28	375/187.5	200/400	75	11/64	—	1	—	2	Lug	.5
	TR280	Converter	TMI	28	450/225	200/400	90	11/64	—	1	—	2	Lug	.5
	TR281	Converter	TMI	28	500/250	250/500	125	3/16	—	1 1/8	—	2 1/4	Lug	.6
D	TR282	Converter	TMI	28	600/300	200/400	120	3/16	—	1 1/8	—	2 1/4	Lug	.6
	TR283	Converter	TMI	6.3	300/150	100/200	30	11/64	—	1	—	1 3/4	Lug	.4
	TR284	Converter	TMI	6.3	325/162.5	150/300	49	11/64	—	1	—	2	Lug	.5
	TR285	Converter	TMI	6.3	375/187.5	200/400	75	11/64	—	1 1/8	—	2 1/4	Lug	.6
	TR286	Converter	TMI	6.3	450/225	150/300	68	3/16	—	1 1/8	—	2 1/4	Lug	.6
E	TR287	Inverter	TYL	28	110/115/125V	400 Hz	60	1 1/8	1 1/8	1 1/8	2 1/4	2	Leads	.6
	TR288	Inverter	TYL	12	110/115/125V	400 Hz	60	1 1/8	1 1/8	1 1/8	2 1/4	2	Leads	.6
	TR355	Inverter	GGV	12	110/115/125V	60 Hz	115	2 1/2	2 1/8	3 1/8	3 9/32	3 1/4	Leads	4
	TR354	Inverter	GGV	12	110/115/125V	60 Hz	60	2	1 1/8	3 1/8	2 1/8	2 1/8	Leads	3
	TR78	Converter	DAH	12	250/125	65/130	16.5	1 1/2	—	1 3/4	1 3/4	1 1/8	Leads	.50
F	TR83	Converter	DAH	12	300/150	100/200	30	1 1/2	—	1 3/8	2 1/8	1 1/8	Leads	.50
	TR95	Converter	DAH	12	600/300	200/400	120	3 3/4	—	2	4 1/8	3	Self	1.1
	*TR485	Converter	DAH	12	670/335	180/360	60	3 3/4	—	2	4 1/8	3	Leads	1.1
	TR462	Converter	BAH	3	1000 (1/2 wave)	—	25 ma	1 1/8	—	3/4	1 1/8	1 1/16	Leads	.13
	TR464	Converter	MAH	4	425/500	—	50 μa	—	—	7/16	7/16	1/2	Leads	.025
G	TR465	Converter	BAH	3	535 (1/2 wave)	—	90 μa	1 1/8	—	3/4	1 1/8	1 1/16	Leads	.13

*Has separate bias winding for SSB transmitter

TYPICAL DC to AC INVERTER



TYPICAL DC to DC CONVERTER



THORDARSON

LINE ADJUSTING TRANSFORMERS

THORDARSON presents a complete selection of line voltage adjusting transformers in both autoformer and isolation types with broad ranges of electrical and mechanical configurations. The units are listed in order of increasing VA ratings.

STEP-DOWN AND STEP-UP AUTOFORMERS—INPUT 50/60 Hz WITH 2 CONDUCTOR LINE CORD AND PLUG. OUTPUT 2 CONDUCTOR FEMALE RECEPTACLE.

These Autoformers provide a smaller and more economical method of changing from 115 to 220 or 220 to 115 Volts. They provide correct line voltages for machine tool control units such as sequence timers, solenoids and lighting systems.

Section	TM Part No.	Output VA	Primary Voltage	Secondary Voltage	RMS Test Volts	Style	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
A	23V191	40	230	115	1500	GMV	3½	2 11/16	2 5/16	2	1 7/16	2.2
	25V10	50	230	115	1500	TMV	3 9/16	3½	2⅛	3⅛	2	2.7
	23V393	50	230	115	1500	BAH	2 5/16	3 11/16	1⅞	3⅛	—	1.5
	23V81	85	230	115	1500	GMV	3½	2¾	2⅜	2	2 1/16	4.0
	23V338	85	230	115	1500	GMV	3½	2¼	2¼	2	1¼	2.5
B	23V397	85	115	230	1500	GMV	3	2½	2¼	2	1¼	2.5
	25V11	100	230	115	1500	TMV	4 5/16	3 11/16	4 11/16	3⅜	2¾	6.5
	23V21	100	230	115	1500	GMV	3⅜	3½	3⅛	2½	1¾	3.0
	23V344	125	230	115	1500	GMV	3	2⅛	3	2	2	3.0
	23V398	125	115	230	1500	GMV	3	2½	3	2	2	3.0
C	23V22	150	230	115	1500	GMV	3⅜	3¼	3⅜	2½	2 1/16	3.0
	25V12	150	230	115	1500	TMV	5 1/16	4 1/16	5¼	4¼	2½	9.0
	23V339	200	230	115	1500	GMV	3⅜	3 1/16	3 1/16	2½	2	4.2
	23V23	250	230	115	1500	GMV	4⅛	3⅛	3½	3	2⅜	6.2
	25V13	250	230	115	1500	TMV	5 1/16	4 1/16	5¼	4¼	2½	8.7
D	23V343	300	230	115	1500	GMV	3⅜	3 1/16	3 11/16	2½	2⅜	5.2
	23V399	300	115	230	1500	GMV	3⅜	3 1/16	3 11/16	2½	2⅜	5.2
	23V340	400	230	115	1500	GMV	3⅜	3 1/16	4⅛	2½	3 1/16	7.0
	25V14	500	230	115	1500	TMV	6 1/16	5⅛	5 9/16	5⅛	3½	14.5
	23V24	500	230	115	1500	GMV	4⅛	3⅜	4½	3	3⅜	10.2
E	23V342	500	230	115	1500	GMV	4 9/16	3 11/16	4⅛	3	3 7/16	10.3
	23V400	500	115	230	1500	GMV	4 9/16	3 11/16	4⅛	3	3 7/16	10.3
	23V341	1000	230	115	1500	GMV	4 9/16	3 11/16	6⅛	3	4 15/16	17.0
	25V15	1000	230	115	1500	TMV	7 1/16	6½	6½	6	4¼	22.0
	23V84	1200	230	115	1500	GMV	4⅜	3⅛	6⅜	3	5½	18.0
F	23V120	2000	230	115	1500	GMV	5 1/16	4½	7⅜	3½	6⅜	33.0
	23V46	3000	230/208	208/230	1750	GMH	4	4½	6	3¼	2½	10.0

STEP-DOWN AUTOFORMERS—INPUT 230 VOLTS 50/60 Hz WITH LINE CORD AND 3 CONDUCTOR PLUG. OUTPUT 115 VOLTS WITH 3 CONDUCTOR RECEPTACLE. CORE AND FRAME GROUNDED TO THIRD CONDUCTOR OF NEMA STANDARD CORD.

Section	TM Part No.	Output VA	Primary Voltage	Secondary Voltage	RMS Test Volts	Style	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
G	23V412	65	230	115	1500	BMH*	2¼	3 11/16	2¼	3½	1½	1.6
	23V290	75	230	115	1500	GMV	3⅛	3 1/16	2¾	2½	1½	3.0
	23V413	100	230	115	1500	BMH*	2¼	3 11/16	2¾	3½	1½	1.75
	23V288	100	230	115	1500	GMV	3½	3 1/16	3	2½	1¾	3.7
	23V414	150	230	115	1500	BMH*	2⅝	4	2½	3 9/16	1¾	2.8
H	23V291	150	230	115	1500	GMV	3⅜	3 1/16	3¼	2½	2	4.4
	23V292	250	230	115	1500	GMV	4⅛	3 11/16	3¾	3	2⅜	7.6
	23V293	350	230	115	1500	GMV	4⅛	3 11/16	3¾	3	2⅜	7.4
	23V289	500	230	115	1500	GMV	4⅛	3 11/16	4 1/16	3	3 1/16	9.6
	23V295	750	230	115	1500	GMV	5½	4½	4½	3½	2⅜	12.1
I	23V294	1000	230	115	1500	GMV	5½	4⅛	5⅜	3½	3¼	16.5
	23V296	1500	230	115	1500	GMV	5½	4⅜	5⅛	3½	4¼	20.1

*These units have 2 conductor line cords, plug and receptacle

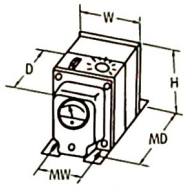
LINE ADJUSTING TRANSFORMERS

TAPPED INPUT AUTOFORMERS—VARIED INPUT 50/60 Hz WITH 2 CONDUCTOR LINE CORD AND TAPPED SWITCH. OUTPUT 115 VOLTS WITH 2 CONDUCTOR FEMALE RECEPTACLE.

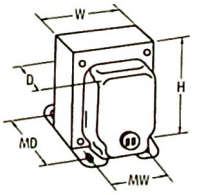
Section	TM Part No.	Output VA	Primary Voltage	Secondary Voltage	RMS Test Volts	Style	Outline Dimensions H	W	D	Mounting Dimensions MW	MD	Wt. Lbs.
A	23V91	85	105/115/125/135 150/210/230/250	115	1500	GMV	3½	3	4⅛	2½	3 7/16	4.5
	23V92	150	105/115/125/135 150/210/230/250	115	1500	GMV	4	3¼	4⅛	2½	3 13/16	5.5
	23V93	350	85/90/95/100/105 110/115/120/125	115	1500	GMV	4	3¼	5	2½	3 13/16	5.0

TAPPED INPUT AUTOFORMERS WITH VOLTMETER—VARIED INPUT 50/60 Hz WITH 2 CONDUCTOR LINE CORD AND TAPPED SWITCH. OUTPUT 115 VOLTS WITH 2 CONDUCTOR FEMALE RECEPTACLE.

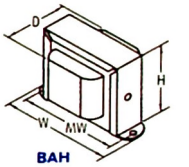
Section	TM Part No.	Output VA	Primary Voltage	Secondary Voltage	RMS Test Volts	Style	Outline Dimensions H	W	D	Mounting Dimensions MW	MD	Wt. Lbs.
B	23V11	150	65/75/90/100 115/130/145	115	750	GMV	5⅛	3⅛	5⅛	5⅛	4 9/16	6.4
	23V12	350	65/75/90/100 115/130/145	115	750	GMV	5½	3⅞	6⅛	6⅞	5 5/16	10.5
	23V13	500	65/75/90/100 115/130/145	115	750	GMV	5½	3⅞	6⅞	7¼	5 13/16	15.0
	23V14	750	65/75/90/100 115/130/145	115	750	GMV	6 5/16	4½	8⅛	3½	6⅛	19.0
	23V09	1250	65/75/90/100 115/130/145	115	750	GMV	6 5/16	4½	10	3½	7¼	25.0



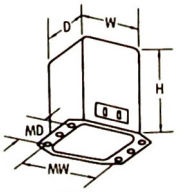
GMV WITH VOLTMETER



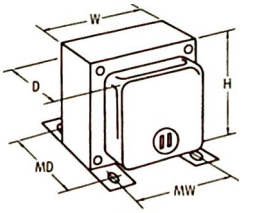
GMV



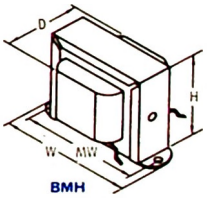
BAH



TMV



GMH



BMH

TV EXACT REPLACEMENTS

THORDARSON has the most complete line of TV exact replacement transformers in the industry. Color television flybacks, yokes, vertical output and power transformers are designed and manufactured as exact replacements for virtually all popular makes and models and many older black and white types are available too. Contact your THORDARSON distributor for FREE up-to-date TV replacement information.

THORDARSON has additional standard and stocked **LINE ADJUSTING TRANSFORMERS** which are not listed in this catalog. Contact factory for additional information.

THORDARSON

LINE ADJUSTING TRANSFORMERS

ISOLATION—PRIMARY 50/60 Hz WITH 2 CONDUCTOR LINE CORD. SECONDARY—2 CONDUCTOR RECEPTACLE AND ELECTROSTATIC SHIELD GROUNDED TO CORE.

Isolation control transformers provide 115 Volts power or lighting within machine tools or other automated equipment from various line voltages from 115 Volts to 600 Volts. They also permit direct grounded lighting systems or control circuits independent of power distribution grounds for greater operation safety.

Section	TM Part No.	Output VA	Primary Voltage	Secondary Voltage	RMS Test Volts	Style	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
A	23V86	40	110-120	110-120	1500	GMV	3 1/8	2 5/8	3 1/8	2	1 7/8	4.0
	23V45	50	115	115	1500	GMV	3 3/8	3 1/4	3 1/4	2 1/2	1 15/16	4.25
	23V87	100	110-120	110-120	1500	GMV	3 3/8	3 3/4	3 3/4	2 1/2	2 1/4	6.0
	23V213	100	115	115	1500	GGV	4 3/8	3 3/8	4	2 3/4	3 3/8	6.5
	23V48	100	115	115	1500	GMV	4 1/4	3 3/8	3 1/2	3	2 7/16	6.5
B	23V25	100	105/115/125†	115	1500	GMV	4 1/4	3 1/2	3 3/8	2 3/4	3 1/16	6.2
	23V128	100	210/230/250*	115	1500	GMV	4 1/4	4	3 3/4	3	3 5/16	7.3
	23V49	150	115	115	1500	GMV	4 1/4	3 3/8	3 3/4	3	2 9/16	7.0
	23V55	150	95/100/105/110* 115/120/125/130	115	1500	GMV**	4 1/2	3 15/16	5 3/8	3	4 1/4	7.0
	23V74	150	115-230	115	1500	GGV	3 3/8	3 9/32	3 1/8	2 1/2	3	7.0
C	23V58	250	115	115	1500	GMV	4 1/4	3 1/8	5 1/4	3	3 5/16	12.5
	23V126	250	105/115/125*	115	1500	GMV	4 1/4	4	5 1/4	3	4 5/16	14.2
	23V90	250	220	120	1500	GMV	4 1/2	3 1/8	4 3/8	3	3 1/8	12.0
	23V129	250	210/230/250*	115	1500	GMV	4 1/4	4	5 1/4	3	4 5/16	14.2
	23V19	350	115	105/115/125	1500	GMV	5 1/8	4 1/2	5 3/4	3 1/2	3 1/8	13.0
D	23V57	350	95/100/105/110 115/120/125/130*	115	1500	GMV**	4 3/8	3 15/16	7 1/4	3	6 1/8	17.0
	23V130	500	210/230/250*	115	1500	GMV	7 1/4	5 3/8	7 1/2	4 1/8	4 1/4	29.5
	23V44	600	115	115	1500	GMV	4 3/8	3 1/8	7 1/16	3	6	16.0
	23V88	1200	110-120	110-120	1500	GMV	5 1/8	4 1/2	8 1/2	3 1/8	6 1/8	30.00

†Has receptacle for voltage adjustment *Complete with tap switch for voltage adjustment **With voltmeter.

ISOLATION—PRIMARY 50/60 Hz WITH 3 CONDUCTOR LINE CORD. SECONDARY—3 CONDUCTOR RECEPTACLE. CORE AND FRAME GROUNDED TO THIRD CONDUCTOR OF NEMA STANDARD CORD.

Section	TM Part No.	Output VA	Primary Voltage	Secondary Voltage	RMS Test Volts	Style	Outline Dimensions H	Outline Dimensions W	Outline Dimensions D	Mounting Dimensions MW	Mounting Dimensions MD	Wt. Lbs.
E	23V364	100	115	115	1500	GMV	3 1/2	2 13/16	3 9/16	2 1/4	2 1/16	4.5
	23V369	100	230	115	1500	GMV	3 1/2	2 13/16	3 9/16	2 1/4	2 1/16	4.5
	23V365	150	115	115	1500	GMV	3 3/8	3 1/16	4 1/16	2 1/2	2 15/16	7.0
	23V370	150	230	115	1500	GMV	3 3/8	3 1/8	4 1/16	2 1/2	2 15/16	7.0
	23V366	250	115	115	1500	GMV	4 11/16	3 3/4	4 1/8	3	3 1/16	9.3
F	23V371	250	230	115	1500	GMV	4 11/16	3 3/4	4 1/4	3	3 1/16	9.0
	23V367	500	115	115	1500	GMV	4 11/16	3 3/4	6	3	4 13/16	16.5
	23V372	500	230	115	1500	GMV	4 11/16	3 3/4	6	3	4 13/16	16.0
	23V368	1000	115	115	1500	GMV	5 1/2	4 5/16	8 1/8	3 1/2	6 1/2	31.5
	23V373	1000	230	115	1500	GMV	5 1/2	4 5/16	8 1/8	3 1/2	6 1/2	31.0

MERCURY SWITCHES, TIME CYCLE CONTROLLERS, AND FINE WIRE TENSIONING DEVICES

In addition to magnetic components, THORDARSON manufactures and sells mercury switches, custom time cycle controllers operating with either mercury, snap-action, or pneumatic switches, and wire tensioning devices. Contact factory for complete information.

THORDARSON has additional standard and stocked **LINE ADJUSTING TRANSFORMERS** which are not listed in this catalog. Contact factory for additional information.

LINE ADJUSTING TRANSFORMERS

ISOLATION—UNIVERSAL VOLTAGE CONTROL 50/60 Hz WITH 4-115 VOLT WINDINGS AND PRIMARY/SECONDARY LUGS ISOLATION CONNECTIONS 115 TO 115 VOLT, 115 TO 230 VOLT, 230 TO 115 VOLT. AUTOFORMER CONNECTIONS 115 TO 230 VOLT, 115 TO 460 VOLTS, 230 TO 460 VOLTS.

This series has four isolated windings with seven possible combinations: for step-up, step-down, and isolation applications in industrial, home or laboratory use. They are particularly adapted to 220-Volt line step-down to provide 115-Volt power source to operate machine tools and other automated equipment.

Section	TM Part No.	Output VA	Primary Voltage	Secondary Voltage	RMS Test Volts	Style	Outline Dimensions H	W	D	Mounting Dimensions MW	MD	Wt. Lbs.
A	23V34	50	115/230	115/230	1500	CTH	2⅜	3	3⅛	2½	2¼	2.75
	23V35	100	115/230	115/230	1500	CTH	3¼	3¼	2⅞	3⅛	2⅝	5.0
	23V36	200	115/230	115/230	1500	CTH	2⅞	4½	3⅝	3¾	2¼	9.0
	23V37	300	115/230	115/230	1500	CTH	4⅛	4⅜	3¾	4⅛	2⅜	11.0
	23V38	500	115/230	115/230	1500	CTH	4⅛	4⅞	5	4⅛	4⅛	17.0
B	23V39	1000	115/230	115/230	1500	CTH	5⅛	6⅛	5½	5⅛	4½	23.0
	23V187	2500	115/230	115/230	1500	CTH	7⅛	9	5½	8	4½	40.0

ISOLATION—ENCASED 50/60 Hz WITH TAP SWITCH

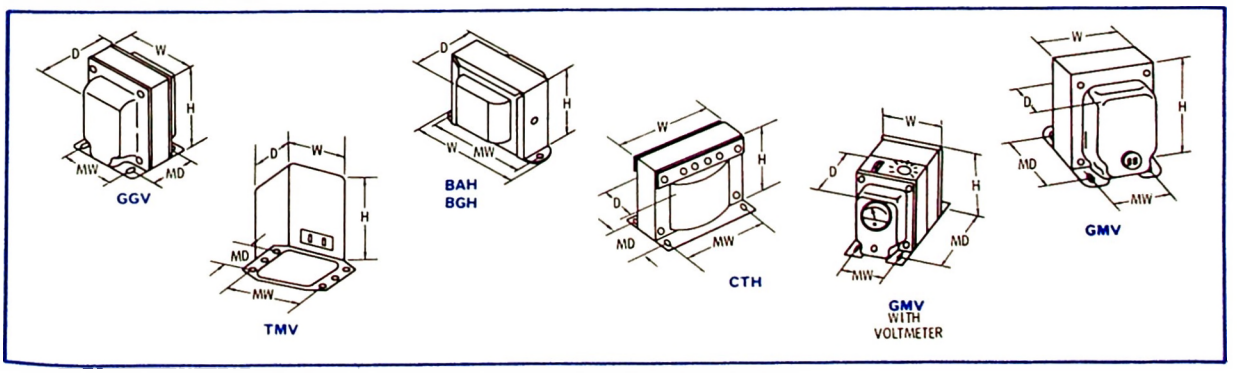
Section	TM Part No.	Output VA	Primary Voltage	Secondary Voltage	RMS Test Volts	Style	Outline Dimensions H	W	D	Mounting Dimensions MW	MD	Wt. Lbs.
C	25V16	50	105/115/125	115§	1500	TMV*	2¼	3 15/16	4 7/16	2¾	3⅛	5.0
	25V18	150	105/115/125	115§	1500	TMV*	6 1/16	5⅛	5 1/16	3½	5⅛	12.5
	25V20	175	115	115	1500	TMV	5 1/16	5¼	4 9/16	2½	4¼	9.0
	25V19	250	105/115/125	115§	1500	TMV*	6 1/16	5⅞	5 9/16	3½	5⅛	18.2

§125/115/105 with 115 volts primary
*Complete with switch

ISOLATION—50/60 Hz WIRE—IN TYPE WITH LEAD WIRES FOR PERMANENT INSTALLATION. (SHIELDED)

Section	TM Part No.	Output VA	Primary Voltage	Secondary Voltage	RMS Test Volts	Style	Outline Dimensions H	W	D	Mounting Dimensions MW	MD	Wt. Lbs.
D	23V378	0.6	115	115	1500	BAH	1¼	2⅛	1¼	1¾	—	0.25
	23V374	15	115	115	1500	BAH	2	3¼	1⅞	2 13/16	—	1.0
	23V375	15	115	115	1500	BGH	2	3¼	1⅞	2 13/16	—	1.1
	23V17	35	115	115	1500	BAH	2¼	3 13/16	2½	3⅛	—	1.75
	23V80	50	115	115	1500	BAH	2¼	3 13/16	2½	3⅛	—	1.75
E	23V18	80	115	115	1500	GGV	3⅛	3 1/16	3½	2½	2 5/16	5.0
	23V395	150	115	115/230¶	1500	GMV	3⅛	3 1/16	4	2½	2¾	6.2
	23V84	250	115/230	115	1500	GGV	4⅛	3 13/16	4¼	3	3⅜	11.0
	23V133	300	220/440	115	1500	GGV	4⅛	3 13/16	4½	3	3⅛	10.2

¶Secondary has two separate windings.



THORDARSON

LINE ADJUSTING TRANSFORMERS

ISOLATION—MULTI-SHIELDED 50/60 Hz ENCASED MIL-T-27

These Multi-shielded line isolation transformers have been specifically designed for critical circuitry where minimum coupling capacity is imperative and battery-type isolation is desired.

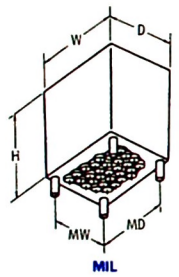
Section	TM Part No.	Output VA*	Primary Voltage	Secondary Voltage	RMS Test Volts	Style	Outline Dimensions H	W	D	Mounting Dimensions MW	MD	Wt. Lbs.
A	27V60	50	115	115	500	MIL	3 1/32	4 1/32	4 1/32	3 3/8	3 3/8	5.5
	27V61	120	115	115	500	MIL	3 1/2	5 11/32	5	4 3/8	4 5/16	13.0
	27V62	160	115	115	500	MIL	4 17/32	5 17/32	5 17/32	4 13/16	4 13/16	15.5
	27V63	400	115	115	500	MIL	5 17/32	8	6 17/32	7 1/16	5 3/8	35.0

ISOLATION—50/60 Hz MACHINE TOOL CONTROL TYPE

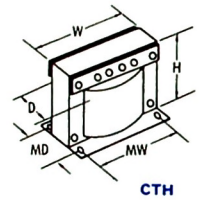
PRIMARY/SECONDARY SCREW TERMINALS

Section	TM Part No.	Output VA	Primary Voltage	Secondary Voltage	RMS Test Volts	Style	Outline Dimensions H	W	D	Mounting Dimensions MW	MD	Wt. Lbs.
B	Q342	50	230/460	115	2000	CTH	3 1/16	3 1/4	3 1/16	3 1/2	1 1/2	3.0
	Q343	75	230/460	115	2000	CTH	3 1/16	3 1/4	3 1/16	3 1/2	1 1/4	4.0
	Q344	150	230/460	115	2000	CTH	3 3/8	4 1/2	3 11/16	3 3/4	2 3/8	7.5
	Q345	300	230/460	115	2000	CTH	3 3/8	4 1/2	5 1/16	3 3/4	4	13.5
	Q346	500	230/460	115	2000	CTH	4 13/16	5 1/4	5	4 1/2	3 9/16	13.5
C	Q347	750	230/460	115	2000	CTH	4 13/16	5 1/4	6 7/16	4 1/2	5	21.0
	Q348	1000	230/460	115	1500	CTH	6 1/8	6 1/4	5 7/8	5 1/2	3 1/2	26.5

*These military ratings may be increased 25% for commercial applications



MIL



CTH

REPLACEMENT PARTS

THORDARSON maintains the most complete line of replacement transformers in the industry. Television flybacks, yokes, vertical output and power transformers are stocked in-depth plus thousands of other hard-to-get transformers and chokes for consumer, commercial, industrial, medical, and military applications. Your THORDARSON distributor has up-to-date TV replacement information.

SPECIAL APPLICATION FLYBACKS AND YOKES

THORDARSON has over 500 stock TV flybacks and over 200 stock yokes which could solve your high voltage transformer or deflection yoke requirements off-the-shelf. There are many advantages using a stock item in special circuit applications including low prototype cost and fast delivery. Also, future availability, even in small quantities, can be assured. Your THORDARSON distributor has a complete list of available items.

THORDARSON

WORLD'S OLDEST AND MOST COMPLETE SOURCE FOR YOUR MAGNETIC COMPONENT REQUIREMENTS

THORDARSON was founded in 1895 and has been a continuous supplier of transformers and chokes to the electrical and electronic industries since their inception. We pioneered radio magnetics and early military electronic systems for use in World Wars I and II. Continuing on a post-war basis, we further developed technology in engineering and manufacturing and now serve the broad and diverse requirements of electronic users throughout the world with over 81 YEARS experience.

THORDARSON maintains two large plants in Illinois devoted to the production and testing of transformers, inductors, reactors, coils, and related items. As the oldest and largest independent manufacturer of these products in the world, we sustain over 8000 pre-engineered items to meet the immediate demands of OEM, MRO, and military customers. In addition, these complete manufacturing facilities are available to meet the special item needs of these customers.

THORDARSON engineering leads the industry in the design and development of magnetic components for OEM and replacement applications. In such fields as biomedical, information display and monitor, and control instrumentation, our engineers developed design and construction advancements which further reinforced our technological leadership. These engineering groups are constantly working on state-of-the-art improvements and new items. Our unsurpassed engineering capabilities are used on **ALL CUSTOMER REQUIREMENTS,** large and small.

THORDARSON quality assures that every order receives constant quality surveillance. We support a complete program in accordance with all applicable specifications for acceptance testing, test equipment, calibration, inspection records, and many more. Our quality program has been surveyed and approved by the Government as well as hundreds of OEM customers. This commitment to quality extends throughout our organization to perpetuate the **THORDARSON** tradition.

The **THORDARSON** tradition also includes **SERVICE**. We maintain the world's largest inventory of catalog and replacement magnetic components and provide fast processing and shipment. In addition, all our efforts in engineering, manufacturing, and quality are focused by our customer service personnel for prompt action on any inquiry. In these times of machine-made and computerized responses, we are proud to add a personal touch to customer contacts. Our people are dedicated to deliver **WHAT YOU WANT AND WHEN YOU WANT IT.**

PRODUCTS FROM THORDARSON

TRANSFORMERS—

—power-unrectified load
—power-rectified load
—inverter
—single frequency
—audio input, interstage, output
—hybrid
—Pulse, input, driver, output, osc.
—Saturable core
—miniature transistor
—converter
—toroidal
—plate, oil/liquid filled
—3 phase power, delta, wye, star
—line isolation, multi-shielded
—high voltage display
—voltage regulator
—voltage distribution
—magnetic amplifier
—biomedical isolation
—power transistor
—geophysical
—liquid filled, internal pressure relief
—variable voltage
—synchro overload
—high voltage, corona free
—filament, low to high power
—degaussing coil (TV)
—machine tool
—constant voltage
—flyback

INDUCTORS—

—power, single and multiple
—single frequency
—audio, single and multiple
—charging
—miniature transistor
—high Q
—low frequency
—toroidal precision inductance
—variable inductance
—liquid filled
—saturable core
—high current

DEFLECTION YOKES

—toroidal
—compact
—saddle type
—TV replacement
—display
—monitor
—color

OTHER PRODUCTS

—reactors
—coils and filters
—degaussing coils
—metal mercury switches
—snap-action switches
—pneumatic switches
—sequence timers
—programmers
—time cycle controllers
—fine wire tensioning devices

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